Appendix A - List of Impaired (Category 5) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Aberdeen Creek**

TMDL Group ID: **01257**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAT-F26E_ABD01A00	**Aberdeen Creek**	GLOUCESTER CO	Southeast of Clay Bank, south of Rt. 631. From the end of tidal waters downstream to the mouth. DSS shellfish direct harvesting condemnation # 047-078 A. YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.13	SQUARE MILES	01257	**1998**	**2010**	VAT-F26E-15 DSS shellfish direct harvesting condemnation # 047-078 A. EPA 1999 Consent Decree segment, Attachment A, Category 3.

Sources: Source Unknown

TMDL Watershed Name: **Adams Creek**

TMDL Group ID: **01258**

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
VAT-F26E_ADM01A00	**Adams Creek**	GLOUCESTER CO	Eastern shore of York River near Purtan Island. VDH-DSS shellfish condemnation # 048-128B, 11/5/2004. Size adjusted in 2006 cycle, although area did not change YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.18	SQUARE MILES	01258	**2004**	**2010**	VAT-F26E-12 VDH-DSS Condemnation 048-128B, 11/4/2005

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Aberdeen Creek**

TMDL Group ID: **01257**

VAT-F26E_ABD01A00 **Aberdeen Creek** GLOUCESTER CO

Southeast of Clay Bank, south of Rt. 631. From the end of tidal waters downstream to the mouth. DSS shellfish direct harvesting condemnation # 047-078 A.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.13	SQUARE MILES	01257	**1998**	**2010**	VAT-F26E-15

DSS shellfish direct harvesting condemnation # 047-078 A. EPA 1999 Consent Decree segment, Attachment A, Category 3.

Sources: Source Unknown

TMDL Watershed Name: **Adams Creek**

TMDL Group ID: **01258**

VAT-F26E_ADM01A00 **Adams Creek** GLOUCESTER CO

Eastern shore of York River near Purtan Island. VDH-DSS shellfish condemnation # 048-128B, 11/5/2004.

Size adjusted in 2006 cycle, although area did not change

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.18	SQUARE MILES	01258	**2004**	**2010**	VAT-F26E-12

VDH-DSS Condemnation 048-128B, 11/4/2005

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Bakers Creek**

TMDL Group ID: **01259**

VAT-F26E_BAK01A00	**Bakers Creek**	KING AND QUEEN CO	North shore York R SE of West Point Municipal Airport. Estuarine portion of creek. Portion of DSS condemnation # 049-004A. YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.01	SQUARE MILES	01259	**2002**	**2014**	VAT-F26E-21 Portion of VDH-DSS Shellfish Condemnation 049-004A, 11/5/2004

Sources: Source Unknown

TMDL Watershed Name: **Berry Run**

TMDL Group ID: **60107**

VAN-F07R_BRY01A06	**Berry Run**	ORANGE CO	Segment begins at the confluence with Little Creek and continues downstream until the confluence with Clear Creek.

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	2.35	MILES	60107	**2006**	**2016**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (8 of 16 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station (8-BRY000.47) at the Route 629 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Carter Creek**

TMDL Group ID: **01485**

VAT-F26R_CTC01A04	**Carter Creek**	YORK CO	NW & SE of Skimino, N of Camp Peary. Riverine portion of Carter Creek

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	0.91	MILES	01485	**2004**	**2016**	VAT-F26R-01 Sufficient exceedances of Virginia's water quality standard for Fecal Coliform bacteria were recorded at DEQ's biological water quality monitoring station (2/3) on Carter Creek to assess this segment as not supporting of the Clean Water Act's Recreation Use Support Goal.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Carter Creek**

TMDL Group ID: **01486**

VAT-F26R_CTC01A04 **Carter Creek** YORK CO NW & SE of Skimino, N of Camp Peary. Riverine portion of Carter Creek

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Benthic-Macroinvertebrate Bioassessments (Streams)**	0.91 MILES	01486	**2004**	**2016**	VAT-F26R-01 Benthic biological monitoring at station 8-CTC003.78 (located at State Route 604) indicated the stream's benthic community was moderately impaired. As a result, DEQ's General Standard (VR680-21-01.2) is not met for the protection of benthic aquatic life and this segment is assessed as not supporting of the Clean Water Act's Aquatic Life Use.

Sources: Source Unknown

TMDL Group ID: **70004**

VAT-F26E_CTC01A06 **Carter Creek** YORK CO Located in York County near Skimino. From mouth to estuarine/riverine transition. DSS condemnation #050-079.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.03 SQUARE MILES	70004	**2002**	**2018**	VAT-F26E-07 VDH-DSS Condemnation 050-079, 9/12/2003

Sources: Source Unknown

TMDL Watershed Name: **Carter Creek (Gloucester County) - Upper Portion (North Shore)**

TMDL Group ID: **01270**

VAT-F27E_CRT01A00 **Carter Creek (Gloucester County) - Upper portion** GLOUCESTER CO North shore York R located NW of Catlett Islands. Upper portion of creek, as described in VDH-DSS condemnation 047-107A, 12/30/2004.

Segment expanded in 2006 cycle.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.17 SQUARE MILES	01270	**1998**	**2010**	VAT-F27E-18 VDH-DSS condemnation 047-107A, 12/30/2004

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Cedarbush Creek, Upper**

TMDL Group ID: **01269**

VAT-F27E_CDB01A00 **Cedarbush Creek - Upper** GLOUCESTER CO

North shore York River, north of Catlett Islands. VDH- DSS condemnation 047-107B, 12/30/2004

Segment expanded in 2006 cycle.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.08	SQUARE MILES	01269	**1998**	**2010**	VAT-F27E-17 VDH-DSS Condemnation 042-107B, 12/30/2004

Sources: Source Unknown

TMDL Watershed Name: **Cohoke Mill Creek, Unnamed Tributary**

TMDL Group ID: **01117**

VAP-F14R_XDM01A00 **Cohoke Mill Creek, UT** KING WILLIAM CO

Mainstem upstream of Cohoke Millpond.

VA Overall AU Category: **5C**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	2.20	MILES	01117	**2004**	**2016**	VAP-F14R-03 The UT was initially assessed as not supporting of the Aquatic Life Use in 2004 based on a pH violation rate of 2/2 at 8-XDM000.50. During the 2006 cycle, the segment remains impaired (6/11).

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Watershed Name: **Contrary Creek**

TMDL Group ID: **00856**

VAN-F08R_CON01A00 **Contrary Creek** LOUISA CO

Segment begins at the headwaters of Contrary Creek and continues downstream until the confluence with Lake Anna.

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	5.49	MILES	00856	**2002**	**2014**	Sufficient exceedances of the instantaneous pH criterion (20 of 22 samples - 90.9%) were recorded at DEQ's ambient water quality monitoring station (8-CON005.38) at the Route 522 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.

Sources: Impacts from Abandoned Mine Lands (Inactive)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Dickeys Swamp, Dogwood Fork, UT Garnetts Creek UT**

TMDL Group ID: **01118**

VAP-F23R_DKW01A00 **Dickeys Swamp** KING AND QUEEN CO Headwaters to Dogwood Fork.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	6.36 MILES	01118	**2002**	**2014**	VAP-F23R-02

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen violations at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL is due in 2014.

In the 2004 cycle, the dissolved oxygen violation rate at 8-DKW000.12 was still unacceptable (3/19), but monitoring upstream on Dickeys Swamp showed acceptable results. However, the segment length was not modified pending further monitoring.

There has been no additional monitoring since 2002.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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VAP-F23R_DKW01B00 **Dickeys Swamp** KING AND QUEEN CO Dogwoods Fork to Route 620

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	4.18 MILES	01118	**2002**	**2014**	VAP-F23R-02

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen violations at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL is due in 2014.

In the 2004 cycle, the dissolved oxygen violation rate at 8-DKW000.12 was still unacceptable (3/19), but monitoring upstream on Dickeys Swamp showed acceptable results. However, the segment length was not modified pending further monitoring.

There has been no additional monitoring since 2002.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Dickeys Swamp, Dogwood Fork, UT Garnetts Creek UT**

TMDL Group ID: **01118**

VAP-F23R_DKW01C98 **Dickeys Swamp** KING AND QUEEN CO Route 620 to Garnetts Creek.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.64 MILES	01118	**2002**	**2014**	VAP-F23R-02

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen violations at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL is due in 2014.

In the 2004 cycle, the dissolved oxygen violation rate at 8-DKW000.12 was still unacceptable (3/19), but monitoring upstream on Dickeys Swamp showed acceptable results. However, the segment length was not modified pending further monitoring.

There has been no additional monitoring since 2002.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Watershed Name: **Dogwood Fork**

TMDL Group ID: **01119**

VAP-F23R_DWD01A00 **Dogwood Fork** KING AND QUEEN CO From its headwaters to its mouth at Dickeys Swamp.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	2.80 MILES	01119	**2002**	**2014**	VAP-F23R-02

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen violations at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL is due in 2014.

In the 2004 cycle, the dissolved oxygen violation rate at 8-DKW000.12 was still unacceptable (3/19), but monitoring upstream on Dickeys Swamp showed acceptable results. However, the segment length was not modified pending further monitoring.

There has been no additional monitoring since 2002.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Felgate's Creek - Upper**

TMDL Group ID: **01271**

VAT-F27E_FEL01A00 **Felgate's Creek** YORK CO

South of Pennimon Spit, within Naval Weapons Station. Segment extends from headwaters downstream to mouth. Portion of DSS condemnation # 051-035C. In 2006: Merged with FEL02A00, which was deleted.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.25	SQUARE MILES	01271	**1998**	**2010**	VAT-F27E-12 (SF)

Portion of VDH-DSS condemnation 051-035C, 10/7/2004 - The upper portion of Felgates Creek has been previously assessed as impaired of the Shellfish Consumption Use based on condemnation 134B. During the 2006 cycle, the impairments on Felgates and King Creeks were expanded and merged.

Sources: Source Unknown

TMDL Watershed Name: **Fox Creek**

TMDL Group ID: **70003**

VAT-F26E_FOX01A06 **Fox Creek** GLOUCESTER CO

Fox Creek trib to York River. Located southeast of Almondsville in Gloucester Co. DSS condemnation # 72, 4/27/1989.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.02	SQUARE MILES	70003	**2006**	**2018**	VAT-F26E-06

VDH-DSS Condemnation 047-072, 4/27/1989

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Garnetts Creek, UT**

TMDL Group ID: **01123**

VAP-F23R_XDN01A00 **Garnetts Creek, UT** KING AND QUEEN CO Headwaters to mouth at Garnetts Creek.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	2.48 MILES	01123	**2002**	**2014**	VAP-F23R-02

Dickeys Swamp from Dogwoods Fork downstream to the mouth was initially assessed as fully supporting but threatened in 1998 based on dissolved oxygen violations at the Route 620 bridge (8-DKW000.12)

The segment was downgraded and extended in 2002 cycle to incorporate Dogwood Fork, the UT to Garnetts Creek (at the confluence of Garnetts and Dickeys), and the headwaters of Dickeys Swamp based on the results of a special study. The TMDL is due in 2014.

In the 2004 cycle, the dissolved oxygen violation rate at 8-DKW000.12 was still unacceptable (3/19), but monitoring upstream on Dickeys Swamp showed acceptable results. However, the segment length was not modified pending further monitoring.

There has been no additional monitoring since 2002.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Gold Mine Creek**

TMDL Group ID: **00224**

VAN-F06R_GMC01A00 **Gold Mine Creek** LOUISA CO Segment begins at the headwaters of Gold Mine Creek and continues downstream until the confluence with Lake Anna.

VA Overall AU Category: **5D**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	7.16 MILES	00224	**2006**	**2005**	A bacteria TMDL for the Goldmine Creek watershed was submitted to the U.S. EPA and approved November 4, 2005. The sources of bacteria requiring reductions are pet, livestock and wildlife waste delivered directly to the stream or via pastureland or forest, human contributions from straight pipes, failing septic systems, and leaking sanitary sewers, and biosolid application. Sufficient exceedances of the instantaneous E.coli bacteria criterion (3 of 12 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (8-GMC002.19) at the Route 613 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002. Segment listed as Category 4A - Federal ID NA.

Sources: Grazing in Riparian or Shoreline Zones
Impacts from Land Application of Wastes
Livestock (Grazing or Feeding Operations)
Runoff from Forest/Grassland/Parkland
Sewage Discharges in Unsewered Areas
Wastes from Pets
Waterfowl
Wildlife Other than Waterfowl

TMDL Watershed Name: **Harrison Creek**

TMDL Group ID: **01116**

VAP-F14R_HSN01A00 **Harrison Creek** KING WILLIAM CO Upstream of pond at Elsing Green to nearest tributaries.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	2.59 MILES	01116	**2004**	**2016**	VAP-F14R-02 Harrison Creek was initially assessed as not supporting of the Aquatic Life Use in 2005 based on a pH violation rate of 2/2 at the Route 632 bridge (8-HSN002.12). During the 2006 cycle, the segment remained impaired (2/11).

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Herring Creek**

TMDL Group ID: **00325**

VAN-F21R_HER01B02 **Herring Creek** KING WILLIAM CO Segment begins at the confluence with Dorrell Creek and continues downstream until the start of Herring Creek Millpond.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	4.81 MILES	00325	**2002**	**2010**	Sufficient excursions of the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-HER005.12) at the Route 609 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Nine of 14 samples (64.3%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Group ID: **00865**

VAN-F21R_HER01B02 **Herring Creek** KING WILLIAM CO Segment begins at the confluence with Dorrell Creek and continues downstream until the start of Herring Creek Millpond.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	4.81 MILES	00865	**2002**	**2014**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 8 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (8-HER005.12) at the Route 609 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Group ID: **60118**

VAN-F21R_HER01A06 **Herring Creek** KING WILLIAM CO Segment begins at the outlet of Herring Creek Millpond and continues downstream until the confluence with the Mattaponi River.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	1.39 MILES	60118	**2006**	**2018**	Sufficient excursions of the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-HER000.33) at the Route 600 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Two of six samples (33.3%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Hockley Creek**

TMDL Group ID: **01260**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
VAT-F26E_HCK01A04	**Hockley Creek**	KING AND QUEEN CO	North shore York R NW of Belleview. Portion of DSS condemnation # 049-004A. YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.04	SQUARE MILES	01260	**2002**	**2014**	VAT-F26E-22 Portion of VDH-DSS Shellfish Condemnation 049-004A, 11/5/004

Sources: Source Unknown

TMDL Watershed Name: **Hornquarter Creek**

TMDL Group ID: **01101**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
VAP-F12R_HQT01A00	**Hornquarter Creek**	CAROLINE CO KING WILLIAM CO	Mainstem, headwaters to mouth.

VA Overall AU Category: **5C**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	6.59	MILES	01101	**2002**	**2014**	VAP-F12R-03 Hornquarter Creek was initially evaluated not supporting of the Aquatic Life use support goal during the 2002 cycle based on pH standard violations at the Route 614 bridge (8-HQT002.12). During the 2006 cycle, the violation rate was 4/12.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Watershed Name: **Indian Field Creek**

TMDL Group ID: **01272**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
VAT-F27E_IFC01A00	**Indian Field Creek**	YORK CO	Southeast of Pennimon Spit, within Naval Weapons Station. DSS condemnation no. 051-130, 11/12/1998. YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.12	SQUARE MILES	01272	**1998**	**2010**	VAT-F27E-19 VDH-DSS condemnation 051-130, 11/12/1998

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Jacks Creek**

TMDL Group ID: **01103**

VAP-F13R_JKC01A98 | **Jacks Creek and major tributaries** | KING WILLIAM CO | Jacks Creek in its entirety. Segment extended to consolidate Acquinton and Mallory Creeks in 2006

VA Overall AU Category: **5C**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	22.99	MILES	01103	**2002**	**2014**	VAP-F13R-03

The mainstem of Jacks Creek was assessed as fully supporting but threatened of the Aquatic Life Use in 1998 due to dissolved oxygen violations at the Rt. 621 bridge (8-JCK004.15). In 2002, the segment was downgraded to impaired and extended to incorporate Acquinton and Mallory Creeks based on the results of a special study:
DO 1/1 at 8-ACQ008.01;
DO 1/1 at 8-ACQ001.35;
DO 1/1 at 8-MLY001.58.

The TMDL is due in 2014.

During the 2006 cycle, the violation rate was 3/25 at 8-JKC004.15, so the segment remains impaired.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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TMDL Watershed Name: **Jones & Sandy Creeks**

TMDL Group ID: **01261**

VAT-F26E_JNS01A00 | **Jones Creek** | GLOUCESTER CO | NW of Clay Bank, between Rts 618 & 616. From mouth to estuarine/riverine transition as described in DSS shellfish condemnation # 047-115, 11/7/2002.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.06	SQUARE MILES	01261	**1998**	**2010**	VAT-F26E-13

VDH-DSS Condemnation 047-115, 11/7/2002

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **King Creek - Lower**

TMDL Group ID: **70005**

VAT-F27E_KNG02A02 | **King Creek - Lower** | YORK CO | South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. From RM 0.5 to mouth of creek at confluence with York River (RM 0.0). Portion of VDH-DSS condemnation 051-035C, 10/7/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.14	SQUARE MILES	70005	**2006**	**2018**	VAT-F27E-13

Portion of VDH-DSS condemnation 051-035C, 10/7/2004 - The impairment was expanded during the 2006 cycle; the TMDL for the expanded area is not due until 2018.

Sources: Source Unknown

TMDL Watershed Name: **King Creek - Upper**

TMDL Group ID: **00331**

VAT-F27E_KNG01A02 | **King Creek - Upper** | YORK CO | South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. Headwaters area of creek downstream to RM 0.50. Portion of VDH-DSS condemnation 051-035C, 10/7/2004

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	0.19	SQUARE MILES	00331	**2006**	**2010**	VAT-F27E-05

Sufficient exceedances of Virginia's water quality standards for Fecal Coliform Bacteria were recorded at DEQ's ambient water quality monitoring station on King Cr. to assess this segment as not supporting of the Clean Water Act's Recreation Use Support Goal for the 2002 305(b) report. The cause of the standard exceedances was considered unknown.

During the year 2006 cycle, the segment remained impaired of the Recreation Use due to an enterococci violation rate of 6/14 at 8-KNG004.46. The impairment was converted from fecal coliform to enterococci, however the original TMDL due date was maintained.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **King Creek - Upper**

TMDL Group ID: **01273**

VAT-F27E_KNG01A02 | **King Creek - Upper** | YORK CO | South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. Headwaters area of creek downstream to RM 0.50. Portion of VDH-DSS condemnation 051-035C, 10/7/2004

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.19	SQUARE MILES	01273	**1998**	**2010**	VAT-F27E-13 Portion of VDH-DSS condemnation 051-035C, 10/7/2004

Sources: Source Unknown

TMDL Watershed Name: **Lake Anna and Tributaries**

TMDL Group ID: **60139**

VAN-F06R_GMC01A00 | **Gold Mine Creek** | LOUISA CO | Segment begins at the headwaters of Gold Mine Creek and continues downstream until the confluence with Lake Anna.

VA Overall AU Category: **5D**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	7.16	MILES	60139	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek. An exceedance of the water quality criterion based tissue screening value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue that was recorded in three species of fish samples; largemouth bass (2000), striped bass (2000), and carp (2003), collected at monitoring station 8-GMC001.43.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Lake Anna and Tributaries**

TMDL Group ID: **60139**

VAN-F07L_CON01A02 **Lake Anna/Contrary Creek** LOUISA CO

Segment includes the Contrary Creek arm of Lake Anna, beginning at the start of the inundated waters of Contrary Creek. The Freshwater Creek arm is not included in the segment. Segment size is approximate.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	472.00 ACRES	60139	**2002**	**2014**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek. Additionally, sufficient exceedances of the water quality criterion based tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue were recorded at DEQ's fish tissue/sediment monitoring station 8-CON003.84 to assess this segment as not supporting of Clean Water Act's (CWA's) fish consumption use goal. The TV for PCB's was exceeded in two species (channel catfish and carp) in samples collected 2000 and in two species (carp-rep1 and carp-rep2) in samples collected 2003.

Sources: Source Unknown

VAN-F07L_FRC01A04 **Lake Anna/Freshwater Creek** LOUISA CO

Segment includes the Freshwater Creek arm of Lake Anna.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	51.00 ACRES	60139	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.

Sources: Source Unknown

VAN-F07L_GMC01A02 **Lake Anna/Gold Mine Creek** LOUISA CO

Segment includes the Gold Mine Creek arm of Lake Anna.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	74.00 ACRES	60139	**2002**	**2014**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass,

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Lake Anna and Tributaries**

TMDL Group ID: **60139**

VAN-F07L_NAR01A02 **Lake Anna** LOUISA CO, SPOTSYLVANIA CO

Segment includes the lower portion of Lake Anna, beginning near the northern end of the Route 690 bridge, and continues downstream until the dam.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	1563.00 ACRES	60139	**2002**	**2014**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek. Additionally, an exceedance of the water quality criterion based fish tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue was recorded in one species of fish samples collected in 2000 (channel catfish) and four species of fish samples collected in 2003 at monitoring station 8-NAR034.92 (carp, channel catfish-rep1, channel catfish- rep2, and largemouth bass).

Sources: Source Unknown

VAN-F07L_NAR02A02 **Lake Anna** LOUISA CO, SPOTSYLVANIA CO

Segment includes the middle portion of Lake Anna, beginning at the Route 208 bridge, and continues downstream until the northern end of the Route 690 bridge.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	3330.00 ACRES	60139	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.

Sources: Source Unknown

VAN-F07L_NAR03A02 **Lake Anna** LOUISA CO, SPOTSYLVANIA CO

Segment includes the upper portion North Anna River portion of Lake Anna, beginning at the boundary of F07, and continues downstream until the Route 208 bridge.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	846.00 ACRES	60139	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Lake Anna and Tributaries**

TMDL Group ID: **60139**

VAN-F07L_NAR04A06 — **Lake Anna** — LOUISA CO, SPOTSYLVANIA CO

Segment includes the upper portion North Anna River of Lake Anna beginning at the start of the inundated waters of the North Anna River downstream until the boundary of the F06 watershed.

VA Overall AU Category: **5A**

Use	Impairment	Acres	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	1422.00	60139	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass,

Sources: Source Unknown

VAN-F07L_PLT01A04 — **Lake Anna/Plentiful Creek** — SPOTSYLVANIA CO

Segment includes the Plentiful Creek arm of Lake Anna.

VA Overall AU Category: **5A**

Use	Impairment	Acres	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	109.00	60139	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.

Sources: Source Unknown

VAN-F07L_PMC01A04 — **Lake Anna/Pamunkey Creek** — SPOTSYLVANIA CO

Segment includes the Pamunkey Creek arm of Lake Anna beginning at the confluence with the Terrys Run arm of the lake and continuing downstream until the confluence with the North Anna River at The Splits.

VA Overall AU Category: **5A**

Use	Impairment	Acres	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	805.00	60139	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Lake Anna and Tributaries**

TMDL Group ID: **60139**

VAN-F07L_PMC02A02 **Lake Anna/Pamunkey Creek** — ORANGE CO, SPOTSYLVANIA CO

Segment includes the Pamunkey Creek Arm of Lake Anna from the beginning of the inundated waters of Pamunkey Creek downstream to the confluence with the Terry's Run arm of the lake.

VA Overall AU Category: **5A**

Use	Impairment	Amount	Units	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	472.00	ACRES	60139	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.

Sources: Source Unknown

VAN-F07L_TRY01A04 **Terrys Run/Lake Anna** — ORANGE CO, SPOTSYLVANIA CO

Segment includes the Terrys Run arm of Lake Anna.

VA Overall AU Category: **5A**

Use	Impairment	Amount	Units	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	441.00	ACRES	60139	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek. Additionally, an exceedance of the water quality criterion based fish tissue value (TV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue was recorded in four species of fish samples collected in 2003 at monitoring station 8-TRY001.33 (bluegill sunfish, carp, largemouth bass, and white catfish).

Sources: Source Unknown

VAN-F07R_TRY01A00 **Terrys Run** — ORANGE CO

Segment begins at the confluence with Riga Run and continues downstream until the confluence with Lake Anna.

VA Overall AU Category: **5D**

Use	Impairment	Amount	Units	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	1.83	MILES	60139	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Lake Anna and Tributaries**

TMDL Group ID: **60139**

VAN-F07R_TRY02A02 **Terrys Run** ORANGE CO Segment begins at the confluence with Horsepen Branch and continues downstream until the confluence with Riga Run.

VA Overall AU Category: **5D**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	3.62 MILES	60139	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 06/15/04 and modified 12/13/04, limits carp, largemouth bass, striped bass, white catfish, channel catfish, and bluegill sunfish consumption to no more than two meals per month. The affected area includes the entirety of Lake Anna, including its tributaries Terry's Run, Gold Mine Creek, and Contrary Creek.

Sources: Source Unknown

TMDL Watershed Name: **Lake Gordonsville**

TMDL Group ID: **60121**

VAN-F01L_DOV01A06 **Lake Gordonsville** LOUISA CO Segment includes all of Lake Gordonsville.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**Mercury in Fish Tissue**	82.00 ACRES	60121	**2006**	**2018**	The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, mercury fish consumption advisory. The advisory, dated 09/30/04, limits largemouth bass consumption to no more than two meals per month. The affected area includes the entirety of Lake Gordonsville, also known as Bowlers Mill Lake.

Sources: Source Unknown

TMDL Watershed Name: **Little River**

TMDL Group ID: **60103**

VAN-F10R_LTL01A02 **Little River** LOUISA CO Segment begins at the confluence with Hawkins Creek and continues downstream until the outlet of waterbody F10R, near the border of Louisa and Hanover counties.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	2.47 MILES	60103	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 10 samples - 20.0%) were recorded at DEQ's ambient water quality monitoring station (8-LTL030.55) at the Route 654 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Little River**

TMDL Group ID: **60110**

VAN-F10R_LTL01A02 **Little River** LOUISA CO

Segment begins at the confluence with Hawkins Creek and continues downstream until the outlet of waterbody F10R, near the border of Louisa and Hanover counties.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	2.47 MILES	60110	**2006**	**2018**	Sufficient exceedances of the instantaneous dissolved oxygen criterion (2 of 13 samples - 15.4%) were recorded at DEQ's ambient water quality monitoring station (8-LTL030.55) at the Route 654 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Group ID: **60116**

VAN-F10R_LTL01A02 **Little River** LOUISA CO

Segment begins at the confluence with Hawkins Creek and continues downstream until the outlet of waterbody F10R, near the border of Louisa and Hanover counties.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	2.47 MILES	60116	**2006**	**2018**	Sufficient exceedances of the instantaneous pH criterion (3 of 13 samples - 23.1%) were recorded at DEQ's ambient water quality monitoring station (8-LTL030.55) at the Route 654 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Maracossic Creek**

TMDL Group ID: **00867**

VAN-F22R_MAR02A02 **Maracossic Creek** CAROLINE CO, KING AND QUEEN CO

Segment begins at the confluence with Doctors Creek and continues downstream until the confluence with Beverly Run, approximately 0.66 rivermile downstream from Route 646.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	4.32 MILES	00867	**2002**	**2014**	Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-MAR004.41) at the Route 646 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Three of 12 samples (25.0%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Maracossic Creek**

TMDL Group ID: **60106**

VAN-F22R_MAR01A02 **Maracossic Creek** — CAROLINE CO, KING AND QUEEN CO — Segment begins at the confluence with Beverly Run and continues downstream until the confluence with the Mattaponi River.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	4.28 MILES	60106	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 13 samples - 30.8%) were recorded at DEQ's ambient water quality monitoring station (8-MAR003.24) at the Route 627 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Matta River**

TMDL Group ID: **00860**

VAN-F18R_MTA01A00 **Matta River** — CAROLINE CO, SPOTSYLVANIA CO — Segment begins at the confluence with an unnamed tributary to the Matta River, approximately 0.5 rivermile upstream from the Route 632 bridge, and continues downstream until the confluence with the Poni River, forming the Mattaponi River.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	11.14 MILES	00860	**2006**	**2016**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 11 samples - 18.2%) were recorded at DEQ's ambient water quality monitoring station (8-MTA001.69) at the Route 632 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2004.

Sources: Source Unknown

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00326**

VAN-F21R_MPN01B02 **Mattaponi River** — KING AND QUEEN CO, KING WILLIAM CO — Segment begins at the confluence with Maracossic Creek and continues downstream until the confluence with Gravel Run.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	8.15 MILES	00326	**2002**	**2010**	Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-MPN054.17) at the Route 628 bridge and USGS station 01674500 to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. 27 of 131 samples (20.6%) and 24 of146 samples (16.4%), respectively, were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F23E_MPN02A98 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO

From the limit of tide above the Route 360 bridge to Aylett Creek.

MPNTF

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.16	SQUARE MILES	00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			00440	**2006**	**2010**	VAP-F23E-03 (DO)

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F23E_MPN03A06 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — Aylett Creek to Garnetts Creek.

MPNTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	1.71 SQUARE MILES	00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		00440	**2006**	**2010**	VAP-F23E-03 (DO)

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F23E_ZZZ01A00 **Unsegmented estuaries in F23** KING AND QUEEN CO, KING WILLIAM CO — Unsegmented portion

MPNTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.10 SQUARE MILES	00440	**2006**	**2010**	VAP-F23E-03

The CB standards were implemented during the 2006 cycle. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

The Shallow Water Use was considered fully supporting due to acceptable SAV acreage and there was insufficient data to assess the Migratory Spawning and Nursery Use.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		00440	**2006**	**2010**	VAP-F23E-03 (DO)

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

Sources: Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F24E_MPN03A98 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — Garnetts Creek to tidal freshwater/oligohaline boundary at approximately river mile 18

MPNTF

VA Overall AU Category: **5A**

Use	Impairment	1.15 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

Open-Water Aquatic Life	**Oxygen, Dissolved**		00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F24E_MPN03B02 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — Tidal freshwater/oligohaline boundary to Melrose Landing at Route 602

MPNOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.42	SQUARE MILES	00440	**2006**	**2010**	VAP-F24E-02

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F24E_MPN03C06 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO

Melrose Landing (Route 602) to Heartquake Creek.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.72	SQUARE MILES	00440	**2006**	**2010**	VAP-F24E-02

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

Sources: Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F24E_ZZZ01A00 **Unsegmented estuaries in F24** KING AND QUEEN CO, KING WILLIAM CO — Unsegmented portion of the watershed within MPNTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.05 SQUARE MILES	00440	**2006**	**2010**	VAP-F23E-03 The CB standards were implemented during the 2006 cycle. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		00440	**2006**	**2010**	VAP-F23E-03 The CB standards were implemented during the 2006 cycle. The tidal freshwater Mattaponi failed the default CB 30-day open water summer criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F24E_ZZZ02A06 **Unsegmented estuaries in F24** KING AND QUEEN CO, KING WILLIAM CO — Unsegmented portion of the watershed within MPNOH

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		00440	**2006**	**2010**	VAP-F23E-03 The CB standards were implemented during the 2006 cycle. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer dissolved oxygen criteria. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		00440	**2006**	**2010**	VAP-F23E-03 The CB standards were implemented during the 2006 cycle. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer dissolved oxygen criteria. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F25E_MPN05A00 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO

From transition zone boundary at Heartquake Creek to VDH-DSS 049-004B, 11/5/2004.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment	1.30	SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**			00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

Open-Water Aquatic Life	**Oxygen, Dissolved**	00440	**2006**	**2010**	VAP-F23E-03	The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators. However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F25E_MPN05B06 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO

From VDH-SFC 049-004B, 11/5/2004 to the oligohaline/York mesohaline boundary.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.38	SQUARE MILES	00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

Open-Water Aquatic Life	**Oxygen, Dissolved**	00440	**2006**	**2010**	VAP-F23E-03	The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators. However, during the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F25E_MPN06A04 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO

The Mattaponi oligohaline/York mesohaline boundary downstream to mouth at York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.21	SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**			00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria and the SAV acreage goals.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria and the SAV acreage goals.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

Sources: Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F25E_MPN06B06 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — DS of VDH-DSS condemnation 049-004C to mouth at York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.64	SQUARE MILES	00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria and the SAV acreage goals.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			00440	**2006**	**2010**	VAP-F23E-03

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. This included the entire tidal portion of the Mattaponi River. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. During the 2002 cycle, dissolved oxygen and chlorophyll A violation rates at multiple monitoring stations were all acceptable (see below). Since the listing was based solely on the EPA overlist, the impairment has been considered Nutrients/Eutrophication Biological Indicators.

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria and the SAV acreage goals.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

Sources: Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

VAP-F25E_ZZZ01A00 | **Unsegmented estuaries in F25** | KING AND QUEEN CO, KING WILLIAM CO | Unsegmented portion of the watershed.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.15	SQUARE MILES	00440	**2006**	**2010**	VAP-F23E-03 During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			00440	**2006**	**2010**	VAP-F23E-03 During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F25E_ZZZ02A06 **Unsegmented estuaries in F25** KING AND QUEEN CO, KING WILLIAM CO

Unsegmented portion of the watershed within SFC 049-004B, 11/5/2004.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.01 SQUARE MILES	00440	**2006**	**2010**	VAP-F23E-03 During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		00440	**2006**	**2010**	VAP-F23E-03 During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **00440**

VAP-F25E_ZZZ03A06 **Unsegmented estuaries in F25** KING AND QUEEN CO, KING WILLIAM CO

Unsegmented portion of the watershed within SFC 049-004C, 11/5/2004.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.03	SQUARE MILES	00440	**2006**	**2010**	VAP-F23E-03 During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The mesohaline York (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the default CB 30-day open water summer criteria and the SAV acreage requirements. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			00440	**2006**	**2010**	VAP-F23E-03 During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The oligohaline Mattaponi failed the default CB 30-day open water summer and non-summer criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **01113**

VAP-F24E_MPN03B02 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — Tidal freshwater/oligohaline boundary to Melrose Landing at Route 602

MPNOH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**	0.42 SQUARE MILES	01113	**2004**	**2016**	VAP-F24E-02

In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

Wildlife	**Chloride**		01113	**2004**	**2016**	VAP-F24E-02

In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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VAP-F24E_MPN03C06 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — Melrose Landing (Route 602) to Heartquake Creek.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**	0.72 SQUARE MILES	01113	**2004**	**2016**	VAP-F24E-02

In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

Wildlife	**Chloride**		01113	**2004**	**2016**	VAP-F24E-02

In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **01113**

VAP-F25E_MPN05A00 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — From transition zone boundary at Heartquake Creek to VDH-DSS 049-004B, 11/5/2004.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**	1.30	SQUARE MILES	01113	**2004**	**2016**	VAP-F24E-02

In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

Wildlife	**Chloride**			01113	**2004**	**2016**	VAP-F24E-02

In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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VAP-F25E_MPN05B06 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — From VDH-SFC 049-004B, 11/5/2004 to the oligohaline/York mesohaline boundary.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**	0.38	SQUARE MILES	01113	**2004**	**2016**	VAP-F24E-02

In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

Wildlife	**Chloride**			01113	**2004**	**2016**	VAP-F24E-02

In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth (sq. mi.) was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **01113**

VAP-F25E_MPN06A04 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — The Mattaponi oligohaline/York mesohaline boundary downstream to mouth at York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride** 0.21 SQUARE MILES, TMDL Group ID 01113, First Listed on 303(d) **2004**, TMDL Schedule **2016**	VAP-F24E-02 In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	**Chloride** 0.21 SQUARE MILES, TMDL Group ID 01113, First Listed on 303(d) **2004**, TMDL Schedule **2016**	VAP-F24E-02 In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

VAP-F25E_MPN06B06 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — DS of VDH-DSS condemnation 049-004C to mouth at York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride** 0.64 SQUARE MILES, TMDL Group ID 01113, First Listed on 303(d) **2004**, TMDL Schedule **2016**	VAP-F24E-02 In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Wildlife	**Chloride** 0.64 SQUARE MILES, TMDL Group ID 01113, First Listed on 303(d) **2004**, TMDL Schedule **2016**	VAP-F24E-02 In 2004, the Mattaponi River from the oligohaline boundary downstream to its mouth was assessed as impaired of the Aquatic Life and Wildlife goals based on chloride violations at 8-MPN017.46 and 8-MPN04.39. During the 2006 cycle, there were no chloride violations at 8-MPN017.46, however the impairments continued at the downstream station. The chloride TMDL is due in 2016. Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **01124**

VAP-F25E_MPN06A04 — **Mattaponi River** — KING AND QUEEN CO, KING WILLIAM CO — The Mattaponi oligohaline/York mesohaline boundary downstream to mouth at York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	0.21	SQUARE MILES	01124	**2004**	**2016**	VAP-F25E-03

B-IBI segment YRKMHa has been considered impaired in the 2004 and 2006 cycles. The source of the impairment is considered unknown.

Sources: Source Unknown

VAP-F25E_MPN06B06 — **Mattaponi River** — KING AND QUEEN CO, KING WILLIAM CO — DS of VDH-DSS condemnation 049-004C to mouth at York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	0.64	SQUARE MILES	01124	**2004**	**2016**	VAP-F25E-03

B-IBI segment YRKMHa has been considered impaired in the 2004 and 2006 cycles. The source of the impairment is considered unknown.

Sources: Source Unknown

TMDL Group ID: **10017**

VAP-F23E_MPN02A98 — **Mattaponi River** — KING AND QUEEN CO, KING WILLIAM CO — From the limit of tide above the Route 360 bridge to Aylett Creek.

MPNTF

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.16	SQUARE MILES	10017	**2006**	**2018**	VAP-F23R-06 (PCBs)

The VDH issued a fish consumption advisory on 12/13/2004 for PCBs in the Mattaponi River from Herring Creek to Aylett Creek. The advisory recommends that adults eat no more than 2 meals/month of anadromous striped bass, white perch, and gizzard shad.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **10017**

VAP-F23R_MPN01A00 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — From the watershed boundary (Herring Creek) to the limit of tide near the Route 360 bridge.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	4.72 MILES	10017	**2002**	**2018**	VAP-F23R-06

During the 2006 cycle, the 2003 monitoring indicated exceedances of the fish tissue level for PCBs in 2 species (impaired). In addition, the VDH issued a fish consumption advisory for PCBs from Herring Creek to Aylett Creek which recommends that adults eat no more than 2 meals/month of anadromous striped bass, white perch, and gizzard shad.

Sources: Source Unknown

TMDL Group ID: **10018**

VAP-F23E_MPN02A98 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — From the limit of tide above the Route 360 bridge to Aylett Creek.

MPNTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**Mercury in Fish Tissue**	0.16 SQUARE MILES	10018	**2006**	**2018**	VAP-F23R-05

During the 2006 cycle, 2003 fish tissue monitoring at 8-MPN029.08 indicated exceedance of the mercury screening value. Also, the VDH issued a fish consumption advisory in 2004 for mercury from the Route 628 bridge downstream about 40 miles to Melrose Landing at Rt. 602. The advisory recommends that adults eat no more than 2 meals/month of largemouth bass.

Sources: Atmospheric Deposition - Toxics
Source Unknown

VAP-F23E_MPN03A06 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — Aylett Creek to Garnetts Creek.

MPNTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**Mercury in Fish Tissue**	1.71 SQUARE MILES	10018	**2006**	**2018**	VAP-F23R-05

During the 2006 cycle, 2003 fish tissue monitoring at 8-MPN029.08 indicated exceedance of the mercury screening value. Also, the VDH issued a fish consumption advisory in 2004 for mercury from the Route 628 bridge downstream about 40 miles to Melrose Landing at Rt. 602. The advisory recommends that adults eat no more than 2 meals/month of largemouth bass.

Sources: Atmospheric Deposition - Toxics
Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **10018**

VAP-F23R_MPN01A00 | **Mattaponi River** | KING AND QUEEN CO, KING WILLIAM CO | From the watershed boundary (Herring Creek) to the limit of tide near the Route 360 bridge.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**Mercury in Fish Tissue**	4.72 MILES	10018	**2006**	**2018**	VAP-F23R-05

During the 2006 cycle, the 2003 monitoring indicated 2 exceedances of the mercury screening value (observed effect). In addition, the VDH issued a fish consumption advisory in 2004 for mercury from the Route 628 bridge downstream about 40 miles to Melrose Landing at Rt. 602. The advisory recommends that adults eat no more than 2 meals/month of largemouth bass.

Sources: Source Unknown

VAP-F24E_MPN03A98 | **Mattaponi River** | KING AND QUEEN CO, KING WILLIAM CO | Garnetts Creek to tidal freshwater/oligohaline boundary at approximately river mile 18

MPNTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**Mercury in Fish Tissue**	1.15 SQUARE MILES	10018	**2006**	**2018**	VAP-F23R-05

The VDH issued a fish consumption advisory in 2004 for mercury from the Route 628 bridge downstream about 40 miles to Melrose Landing at Rt. 602. The advisory recommends that adults eat no more than 2 meals/month of largemouth bass.

Sources: Atmospheric Deposition - Toxics
Source Unknown

VAP-F24E_MPN03B02 | **Mattaponi River** | KING AND QUEEN CO, KING WILLIAM CO | Tidal freshwater/oligohaline boundary to Melrose Landing at Route 602

MPNOH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**Mercury in Fish Tissue**	0.42 SQUARE MILES	10018	**2006**	**2018**	VAP-F23R-05

The VDH issued a fish consumption advisory in 2004 for mercury from the Route 628 bridge downstream about 40 miles to Melrose Landing at Rt. 602. The advisory recommends that adults eat no more than 2 meals/month of largemouth bass.

Sources: Atmospheric Deposition - Toxics
Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **10089**

VAP-F24E_MPN03A98 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — Garnetts Creek to tidal freshwater/oligohaline boundary at approximately river mile 18

MPNTF

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	1.15	SQUARE MILES	10089	**2006**	**2018**	VAP-F24E-01

The Mattaponi River from Garnetts Creek downstream to the oligohaline boundary was considered impaired of the Aquatic Life Use in 2006 based on a pH violation rate of 2/16 at 8-MPN017.45. There is only low confidence in the impairment in this segment due to an acceptable violation rate at 8-MPN017.46, however the Mattaponi River upstream of Garnetts Creek has confirmed pH violations due to natural marsh conditions. Further monitoring at this station is recommended to confirm the impairment in this portion of the Mattaponi.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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TMDL Group ID: **10090**

VAP-F25E_MPN05A00 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — From transition zone boundary at Heartquake Creek to VDH-DSS 049-004B, 11/5/2004.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	1.30	SQUARE MILES	10090	**2006**	**2018**	VAP-F25E-01

The Mattaponi from the transitional boundary downstream to its mouth was assessed as not supporting the Recreation Use based on an enterococci violation rate of 2/6 at 8-MPN004.39 during the 2006 cycle. Further monitoring is recommended to confirm the impairment because the fecal coliform violation rate was acceptable (0/59).

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **10090**

VAP-F25E_MPN05B06 — **Mattaponi River** — KING AND QUEEN CO, KING WILLIAM CO — From VDH-SFC 049-004B, 11/5/2004 to the oligohaline/York mesohaline boundary.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	0.38	SQUARE MILES	10090	**2006**	**2018**	VAP-F25E-01

The Mattaponi from the transitional boundary downstream to its mouth was assessed as not supporting the Recreation Use based on an enterococci violation rate of 2/6 at 8-MPN004.39 during the 2006 cycle. Further monitoring is recommended to confirm the impairment because the fecal coliform violation rate was acceptable (0/59).

Sources: Source Unknown

VAP-F25E_MPN06A04 — **Mattaponi River** — KING AND QUEEN CO, KING WILLIAM CO — The Mattaponi oligohaline/York mesohaline boundary downstream to mouth at York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	0.21	SQUARE MILES	10090	**2006**	**2018**	VAP-F25E-01

The Mattaponi from the transitional boundary downstream to its mouth was assessed as not supporting the Recreation Use based on an enterococci violation rate of 2/6 at 8-MPN004.39 during the 2006 cycle. Further monitoring is recommended to confirm the impairment because the fecal coliform violation rate was acceptable (0/59).

Sources: Source Unknown

VAP-F25E_MPN06B06 — **Mattaponi River** — KING AND QUEEN CO, KING WILLIAM CO — DS of VDH-DSS condemnation 049-004C to mouth at York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	0.64	SQUARE MILES	10090	**2006**	**2018**	VAP-F25E-01

The Mattaponi from the transitional boundary downstream to its mouth was assessed as not supporting the Recreation Use based on an enterococci violation rate of 2/6 at 8-MPN004.39 during the 2006 cycle. Further monitoring is recommended to confirm the impairment because the fecal coliform violation rate was acceptable (0/59).

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **10091**

VAP-F25E_MPN05B06 — **Mattaponi River** — KING AND QUEEN CO, KING WILLIAM CO

From VDH-SFC 049-004B, 11/5/2004 to the oligohaline/York mesohaline boundary.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.38	SQUARE MILES	10091	**2006**	**2018**	VAP-F25E-02 VDH Shellfish Condemnation 049-004B, 11/5/2004

Sources: Source Unknown

VAP-F25E_ZZZ02A06 — **Unsegmented estuaries in F25** — KING AND QUEEN CO, KING WILLIAM CO

Unsegmented portion of the watershed within SFC 049-004B, 11/5/2004.

MPNOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.01	SQUARE MILES	10091	**2006**	**2018**	VAP-F25E-02 VDH-DSS Condemnation 049-004B, 11/5/2004

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **10092**

VAP-F25E_MPN06A04 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO

The Mattaponi oligohaline/York mesohaline boundary downstream to mouth at York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.21 SQUARE MILES	10092	**2006**	**2010**	VAP-F23E-03

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10092	**2006**	**2010**	VAP-F23E-03

During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the SAV acreage goals.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **10092**

VAP-F25E_MPN06B06 **Mattaponi River** KING AND QUEEN CO, KING WILLIAM CO — DS of VDH-DSS condemnation 049-004C to mouth at York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.64	SQUARE MILES	10092	**2006**	**2010**	VAP-F23E-03 During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the CB 30 day open water dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			10092	**2006**	**2010**	VAP-F23E-03 During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment, which includes the mouths of the Pamunkey and Mattaponi rivers, failed the SAV acreage goals.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **10092**

VAP-F25E_ZZZ03A06 **Unsegmented estuaries in F25** KING AND QUEEN CO, KING WILLIAM CO

Unsegmented portion of the watershed within SFC 049-004C, 11/5/2004.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.03 SQUARE MILES	10092	**2006**	**2010**	VAP-F23E-03 During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The mesohaline York (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the default CB 30-day open water summer criteria and the SAV acreage requirements. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10092	**2006**	**2010**	VAP-F23E-03 During the 2006 cycle, the Chesapeake Bay water quality standards were implemented. The mesohaline York (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the default CB 30-day open water summer criteria and the SAV acreage requirements. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Mattaponi River**

TMDL Group ID: **60104**

VAN-F17R_MPN02A02 **Mattaponi River** CAROLINE CO Segment begins at the confluence with Campbell Creek and continues downstream until the confluence with the South River.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	5.90 MILES	60104	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 14 samples - 14.3%) were recorded at DEQ's ambient water quality monitoring station (8-MPN094.79) at the Route 605 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Group ID: **60117**

VAN-F17R_MPN02A02 **Mattaponi River** CAROLINE CO Segment begins at the confluence with Campbell Creek and continues downstream until the confluence with the South River.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	5.90 MILES	60117	**2006**	**2018**	Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-MPN094.79) at the Route 605 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) Aquatic Life Use goal. Five of 30 samples (16.7%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Sources: Source Unknown

TMDL Watershed Name: **Mechumps Creek**

TMDL Group ID: **10016**

VAP-F12R_MCP03A06 **Mechumps Creek** HANOVER CO Mechumps Creek from its headwaters downstream to the confluence with XEG.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	1.03 MILES	10016	**2006**	**2018**	VAP-F12R-05 During the 2006 cycle, the pH violation rate at 8-MCP009.56 was 4/17.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Monquin Creek**

TMDL Group ID: **00247**

VAP-F13R_MNQ01A98 **Monquin Creek** KING WILLIAM CO From the headwaters of Webb Creek downstream to the swampy area on Monquin Creek around river mile 2.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	11.83 MILES	00247	**2006**	**2014**	VAP-F13R-04

In 1998, Moncuin Creek was assessed as fully supporting but threatened of the Recreation use because of fecal coliform violations at the Route 618 bridge.

In the 2002 cycle, the segment was extended to incorporate the station on Webb Creek and was assessed not supporting of the Aquatic Life and Recreation Uses because of fecal coliform and pH exceedances. The TMDLs are due in 2014.

During the 2006 cycle, the segment remained impaired for pH and the bacteria impairment was converted to E. coli. The TMDL is currently under development.

E. coli 4/21 at 8-MNQ004.19 (Rt. 618)
pH 5/33 at the 8-MNQ004.19;
pH 1/1 at 8-WEB002.00 (1995 study)

Sources: Source Unknown

TMDL Group ID: **01106**

VAP-F13R_MNQ01A98 **Monquin Creek** KING WILLIAM CO From the headwaters of Webb Creek downstream to the swampy area on Monquin Creek around river mile 2.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	11.83 MILES	01106	**2002**	**2014**	VAP-F13R-04

In 1998, Moncuin Creek was assessed as fully supporting but threatened of the Recreation use because of fecal coliform violations at the Route 618 bridge.

In the 2002 cycle, the segment was extended to incorporate the station on Webb Creek and was assessed not supporting of the Aquatic Life and Recreation Uses because of fecal coliform and pH exceedances. The TMDLs are due in 2014.

During the 2006 cycle, the segment remained impaired for pH and the bacteria impairment was converted to E. coli. The TMDL is currently under development.

E. coli 4/21 at 8-MNQ004.19 (Rt. 618)
pH 5/33 at the 8-MNQ004.19;
pH 1/1 at 8-WEB002.00 (1995 study)

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Newfound River**

TMDL Group ID: **01098**

VAP-F05R_NFD01A00 **Newfound River** HANOVER CO Mainstem downstream of Needstan Creek.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	10.61 MILES	01098	**2004**	**2016**	VAP-F05R-01 (01098) During the 2004 cycle, the segment was assessed not supporting of the Recreation Use based on a fecal coliform violation rate of 5/18 at the Route 667 bridge (8-NFD002.26). No new data has been collected since 2001.

Sources: Source Unknown

TMDL Watershed Name: **Ni River**

TMDL Group ID: **00857**

VAN-F15R_NIR01A00 **Ni River** CAROLINE CO, SPOTSYLVANIA CO Segment begins at the confluence of an unnamed tributary to the Ni River, approximately 0.95 rivermiles downstream from the Route 608 bridge, and continues downstream until the confluence with the Po River, forming the Poni River.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	5.42 MILES	00857	**2004**	**2016**	Sufficient exceedances of the instantaneous pH criterion (3 of 23 samples - 13.0%) were recorded at DEQ's ambient water quality monitoring station (8-NIR003.96) at the Route One bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment. The three values were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Watershed Name: **North Anna River**

TMDL Group ID: **60101**

VAN-F06R_NAR01A02 **North Anna River** LOUISA CO, ORANGE CO Segment begins at the confluence with Beaver Creek and continues downstream until the confluence with Hickory Creek.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	3.07 MILES	60101	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 12 samples - 16.7%) were recorded at DEQ's ambient water quality monitoring station (8-NAR061.09) at the Route 651 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Northeast Creek**

TMDL Group ID: **00211**

VAP-F09R_NST01A98 **Northeast Creek** SPOTSYLVANIA CO Headwaters to mouth

Segment extended during the 2006 cycle.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	18.04 MILES	00211	**2006**	**2014**	VAP-F09R-01 During the 2002 cycle, the segment was assessed not supporting of the Recreation Use because of fecal coliform impairments at the Route 622 bridge (8-NST003.46). During the 2006 cycle, additional monitoring was conducted in the watershed. The segment was extended to incorporate all of Northeast Creek and remains impaired for E. coli coliform and now E. coli, based on sampling at 8-NST003.46 and violations at the TMDL stations. The TMDL for bacteria is in 2014.
	Sources: Source Unknown					
Recreation	**Fecal Coliform**		00211	**2002**	**2014**	VAP-F09R-01 During the 2002 cycle, the segment was assessed not supporting of the Recreation Use because of fecal coliform impairments at the Route 622 bridge (8-NST003.46). During the 2006 cycle, additional monitoring was conducted in the watershed. The segment was extended to incorporate all of Northeast Creek and remains impaired for E. coli coliform and now E. coli, based on sampling at 8-NST003.46 and violations at the TMDL stations. The TMDL for bacteria is in 2014.
	Sources: Source Unknown					

TMDL Group ID: **01100**

VAP-F09R_NST01A98 **Northeast Creek** SPOTSYLVANIA CO Headwaters to mouth

Segment extended during the 2006 cycle.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	18.04 MILES	01100	**2004**	**2014**	VAP-F09R-01 01100 (pH) Northeast Creek was originally considered impaired for pH in 2004. The TMDL is due in 2016. During the 2006 cycle, additional monitoring was conducted in the watershed. The segment was extended to incorporate all of Northeast Creek and remains impaired for pH based on sampling at 8-NST003.46 and violations at the TMDL stations. 8-NST003.46 (A ,TM) Monitored by NVRO. 8-NST000.58 (TM) 8-NST003.46 (TM) 8-NST007.84 (TM) 8-NST011.67 ™
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed					

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey & Mattaponi River (YRKMH)**

TMDL Group ID: **10088**

VAP-F14E_PMK07A04 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Mesohaline boundary to mouth — YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.39 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10088	**2006**	**2010**	VAP-F14E-05 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the Shallow Water SAV acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10088	**2006**	**2010**	VAP-F14E-05 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the Shallow Water SAV acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey & Mattaponi River (YRKMH)**

TMDL Group ID: **10088**

VAP-F14E_ZZZ03A06 **Unsegmented estuaries in F14** KING WILLIAM CO, NEW KENT CO — Unsegmented portion of the watershed within SFC 004A & YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		10088	**2006**	**2010**	VAP-F14E-05 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen criteria and the Shallow Water SAV acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		10088	**2006**	**2010**	VAP-F14E-05 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen criteria and the Shallow Water SAV acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey and Mattaponi Rivers**

TMDL Group ID: **10087**

VAP-F14E_PMK06B06 — **Pamunkey River** — KING WILLIAM CO, NEW KENT CO — VDH-DSS SFC 004A to mesohaline boundary; PMKOH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.59 SQUARE MILES	10087	**2006**	**2018**	VAP-F14E-04; Portion of VDH-DSS SFC 049-004A, 11/5/2004

Sources: Source Unknown

VAP-F14E_PMK07A04 — **Pamunkey River** — KING WILLIAM CO, NEW KENT CO — Mesohaline boundary to mouth; YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.39 SQUARE MILES	10087	**2006**	**2018**	VAP-F14E-04; Portion of VDH-DSS SFC 049-004A, 11/5/2004

Sources: Source Unknown

VAP-F14E_ZZZ02B06 — **Unsegmented estuaries in F14** — KING WILLIAM CO, NEW KENT CO — Unsegmented portion of the watershed within SFC 004A & PMKOH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.06 SQUARE MILES	10087	**2006**	**2018**	VAP-F14E-04; Portion of VDH-DSS shellfish condemnation 049-004A, 11/5/2004

Sources: Source Unknown

VAP-F14E_ZZZ03A06 — **Unsegmented estuaries in F14** — KING WILLIAM CO, NEW KENT CO — Unsegmented portion of the watershed within SFC 004A & YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.08 SQUARE MILES	10087	**2006**	**2018**	VAP-F14E-04; Portion of VDH-DSS shellfish condemnation 049-004A, 11/5/2004

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey and Mattaponi Rivers**

TMDL Group ID: **10087**

VAP-F25E_MPN06B06 **Mattaponi River** — KING AND QUEEN CO, KING WILLIAM CO — DS of VDH-DSS condemnation 049-004C to mouth at York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.64	SQUARE MILES	10087	**2006**	**2018**	VAP-F14E-04 (SF)

Portion of VDH-DSS condemnation 049-004A, 11/5/2004

Sources: Source Unknown

TMDL Watershed Name: **Pamunkey River**

TMDL Group ID: **01112**

VAP-F14E_PMK06A00 **Pamunkey River** — KING WILLIAM CO, NEW KENT CO — Sweet Hall Landing to upstream boundary of VDH-DSS SFC 049-004, 00/5/2004

PMKOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**	3.40	SQUARE MILES	01112	**2004**	**2016**	VAP-F14E-02

The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

Wildlife	**Chloride**			01112	**2004**	**2016**	VAP-F14E-02

The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River**

TMDL Group ID: **01112**

VAP-F14E_PMK06B06 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — VDH-DSS SFC 004A to mesohaline boundary

PMKOH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**	0.59 SQUARE MILES	01112	**2004**	**2016**	VAP-F14E-02 The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01112	**2004**	**2016**	VAP-F14E-02 The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

VAP-F14E_PMK07A04 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Mesohaline boundary to mouth

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Chloride**	0.39 SQUARE MILES	01112	**2004**	**2016**	VAP-F14E-02 The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				
Wildlife	**Chloride**		01112	**2004**	**2016**	VAP-F14E-02 The Pamunkey River from Sweet Hall Landing to the mouth was assessed not supporting of the Aquatic Life and Wildlife uses based on chloride violations at 8-PMK006.36. The TMDL is due in 2016.
		Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed				

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River**

TMDL Group ID: **01114**

VAP-F14E_PMK07A04 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Mesohaline boundary to mouth

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	0.39 SQUARE MILES	01114	**2004**	**2016**	VAP-F14E-06

B-IBI segment YRKMHa was initially assessed as impaired during the 2004 cycle. During the 2006 cycle, the segment remained impaired. The source of the impairment is unknown. The TMDL is due in 2016.

Sources: Source Unknown

TMDL Group ID: **10015**

VAP-F13E_PMK01A98 **Pamunkey River** HANOVER CO, KING WILLIAM CO — Totopotomoy Creek (extent of tide) to Pampatike Landing.

PMKTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**Mercury in Fish Tissue**	0.42 SQUARE MILES	10015	**2006**	**2018**	VAP-F13R-13

A VDH Fish Consumption Advisory was issued on 9/30/2004 for mercury in blue catfish from Route 615 (Nelson Bridge Road) to the confluence with Jacks Creek near Liberty Hall. It is recommended that no more than 2 meals per month be eaten.

Sources: Atmospheric Deposition - Toxics
Source Unknown

VAP-F13E_PMK02A98 **Pamunkey River** HANOVER CO, NEW KENT CO — Pampatike Landing downstream to Jacks Creek.

PMKTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**Mercury in Fish Tissue**	0.82 SQUARE MILES	10015	**2006**	**2018**	VAP-F13R-13

A VDH Fish Consumption Advisory was issued on 9/30/2004 for mercury in blue catfish from Route 615 (Nelson Bridge Road) to the confluence with Jacks Creek near Liberty Hall. It is recommended that no more than 2 meals per month be eaten.

Sources: Atmospheric Deposition - Toxics
Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River**

TMDL Group ID: **10015**

VAP-F13R_PMK01A98 **Pamunkey River** HANOVER CO, KING WILLIAM CO — From Nelson Bridge Road (Rt. . 615) in F12 to Totopotomoy Cr (limit of tide)

Segment extended in 2006

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**Mercury in Fish Tissue**	12.22 MILES	10015	**2006**	**2018**	VAP-F13R-13

A VDH Fish Consumption Advisory was issued on 9/30/2004 for mercury in blue catfish from Route 615 (Nelson Bridge Road) to the confluence with Jacks Creek near Liberty Hall. It is recommended that no more than 2 meals per month be eaten.

Sources: Atmospheric Deposition - Toxics
Source Unknown

TMDL Group ID: **10085**

VAP-F14E_PMK05B00 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Tidal freshwater/oligohaline boundary at approximately river mile 23.6 downstream to Sweet Hall Landing.

PMKOH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	1.31 SQUARE MILES	10085	**2006**	**2018**	VAP-F14E-01

B-IBI segment PMKOHa is impaired during the 2006 cycle. The discriminant analysis tool attributed the benthic alteration o sediment contamination. The TMDL is due in 2018.

Sources: Contaminated Sediments

VAP-F14E_PMK06A00 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Sweet Hall Landing to upstream boundary of VDH-DSS SFC 049-004, 00/5/2004

PMKOH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	3.40 SQUARE MILES	10085	**2006**	**2018**	VAP-F14E-01

B-IBI segment PMKOHa is impaired during the 2006 cycle. The suspected source was attributed to sediment contamination. The TMDL is due in 2018.

Sources: Contaminated Sediments

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River**

TMDL Group ID: **10085**

VAP-F14E_PMK06B06 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — VDH-DSS SFC 004A to mesohaline boundary

PMKOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	0.59	SQUARE MILES	10085	**2006**	**2018**	VAP-F14E-01

B-IBI segment PMKOHa is impaired during the 2006 cycle. The suspected source was attributed to sediment contamination. The TMDL is due in 2018.

Sources: Contaminated Sediments

TMDL Group ID: **10086**

VAP-F14E_PMK06A00 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Sweet Hall Landing to upstream boundary of VDH-DSS SFC 049-004, 00/5/2004

PMKOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	3.40	SQUARE MILES	10086	**2006**	**2018**	VAP-F14E-03

The segment was considered impaired of the Recreation Use during the 2006 cycle due to an enterococci violation rate of 12/27 at 8-PMK006.36.

Sources: Source Unknown

VAP-F14E_PMK06B06 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — VDH-DSS SFC 004A to mesohaline boundary

PMKOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	0.59	SQUARE MILES	10086	**2006**	**2018**	VAP-F14E-03

The segment was considered impaired of the Recreation Use during the 2006 cycle due to an enterococci violation rate of 12/27 at 8-PMK006.36.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River**

TMDL Group ID: **10086**

VAP-F14E_PMK07A04 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Mesohaline boundary to mouth

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	0.39	SQUARE MILES	10086	**2006**	**2018**	VAP-F14E-03

The Pamunkey River from Sweet Hall Landing to its mouth is considered impaired of the Recreation Use during the 2006 cycle due to an enterococci violation rate of 12/27 at 8-PMK006.36.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKOH)**

TMDL Group ID: **01772**

VAP-F14E_PMK05B00 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Tidal freshwater/oligohaline boundary at approximately river mile 23.6 downstream to Sweet Hall Landing.

PMKOH

VA Overall AU Category: **5A**

Use	Impairment	1.31 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01772	**1998**	**2010**	VAP-F14E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKOH)**

TMDL Group ID: **01772**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01772	**1998**	**2010**	VAP-F14E-01	The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression. The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River. During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded. However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKOH)**

TMDL Group ID: **01772**

VAP-F14E_PMK06A00 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Sweet Hall Landing to upstream boundary of VDH-DSS SFC 049-004, 00/5/2004

PMKOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	3.40	SQUARE MILES	01772	**1998**	**2010**	VAP-F14E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKOH)**

TMDL Group ID: **01772**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01772	**1998**	**2010**	VAP-F14E-01	The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression. The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River. During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded. However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKOH)**

TMDL Group ID: **01772**

VAP-F14E_PMK06B06 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — VDH-DSS SFC 004A to mesohaline boundary

PMKOH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.59	SQUARE MILES	01772	**1998**	**2010**	VAP-F14E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKOH)**

TMDL Group ID: **01772**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01772	**1998**	**2010**	VAP-F14E-01	The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression. The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River. During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded. However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKOH)**

TMDL Group ID: **01772**

VAP-F14E_ZZZ02A06 **Unsegmented estuaries in F14** KING WILLIAM CO, NEW KENT CO — Unsegmented portion of the watershed within PMKOH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	2.09 SQUARE MILES	01772	**2006**	**2010**	VAP-F14E-01 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01772	**2006**	**2010**	VAP-F14E-01 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKOH)**

TMDL Group ID: **01772**

VAP-F14E_ZZZ02B06 **Unsegmented estuaries in F14** KING WILLIAM CO, NEW KENT CO — Unsegmented portion of the watershed within SFC 004A & PMKOH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.06 SQUARE MILES	01772	**2006**	**2010**	VAP-F14E-01 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01772	**2006**	**2010**	VAP-F14E-01 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The oligohaline Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

VAP-F13E_PMK01A98 **Pamunkey River** HANOVER CO, KING WILLIAM CO — Totopotomoy Creek (extent of tide) to Pampatike Landing. PMKTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.42 SQUARE MILES	01773	**1998**	**2010**	VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01773	**1998**	**2010**	VAP-F13E-01	The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression. The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River. During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded. However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems. The Shallow Water Use was fully supporting the SAV acreage and there was insufficient information to assess the Migratory Spawning Use.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

VAP-F13E_PMK02A98 **Pamunkey River** HANOVER CO, NEW KENT CO — Pampatike Landing downstream to Jacks Creek. PMKTF

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.82	SQUARE MILES	01773	**1998**	**2010**	VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01773	**1998**	**2010**	VAP-F13E-01	The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression. The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River. During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded. However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

VAP-F13E_PMK03A06 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Jacks Creek downstream to Macon Creek. PMKTF

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.12	SQUARE MILES	01773	**1998**	**2010**	VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01773	**1998**	**2010**	VAP-F13E-01	The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression. The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River. During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded. However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

VAP-F13E_ZZZ01A00 **Unsegmented estuaries in F13** HANOVER CO, NEW KENT CO — Unsegmented portion of the watershed. PMKTF

VA Overall AU Category: **5A**

Use	Impairment	0.28 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01773	**2006**	**2010**	VAP-F13E-01 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01773	**2006**	**2010**	VAP-F13E-01 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

VAP-F14E_CMC01A06 **Cohoke Mill Creek** KING WILLIAM CO Tidal limit at Cohoke Millpond to mouth at Pamunkey River

PMKTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.03 SQUARE MILES	01773	**2006**	**2010**	VAP-F13E-01

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01773	**2006**	**2010**	VAP-F13E-01

During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

VAP-F14E_PMK02A00 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Macon Creek to approximately rivermile 34.25 (one mile upstream of station 8-PMK032.00)

PMKTF

VA Overall AU Category: **5A**

Use	Impairment	0.81	SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**			01773	**1998**	**2010**	VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01773	**1998**	**2010**	VAP-F13E-01	The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression. The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River. During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded. However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

VAP-F14E_PMK03A00 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — One-mile radius drawn around monitoring station 8-PMK032.00

PMKTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.41 SQUARE MILES	01773	**1998**	**2010**	VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01773	**1998**	**2010**	VAP-F13E-01	The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression. The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River. During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded. However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

VAP-F14E_PMK04A00 **Pamunkey River** KING WILLIAM CO, NEW KENT CO

One mile downstream of 8-PMK032.00 to downstream extent of tidal freshwater segment at approximately river mile 23.6

Segment expanded in 2006 and now incorporates previous segment PMK05A00
PMKTF

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	2.45	SQUARE MILES	01773	**1998**	**2010**	VAP-F13E-01

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01773	**1998**	**2010**	VAP-F13E-01	The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression. The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River. During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded. However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River (PMKTF)**

TMDL Group ID: **01773**

VAP-F14E_ZZZ01A00 **Unsegmented estuaries in F14** KING WILLIAM CO, NEW KENT CO — Unsegmented portion of the watershed within PMKTF

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.70 SQUARE MILES	01773	**2006**	**2010**	VAP-F13E-01 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Open-Water Aquatic Life	**Oxygen, Dissolved**		01773	**2006**	**2010**	VAP-F13E-01 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The tidal freshwater Pamunkey segment failed the default CB 30-day open water summer dissolved oxygen criteria of 5.5 mg/L. Water quality standards specific for the Pamunkey and Mattaponi Rivers were adopted after the close of the assessment period and the new criteria will be used in the 2008 cycle. The specific criteria recognize that dissolved oxygen is naturally depressed in the rivers due to their extensive marsh systems.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Pamunkey River, Unnamed Tributary**

TMDL Group ID: **01111**

VAP-F13R_XDX01A04 **UT(XDX) to UT (XDW) to Pamunkey River** KING WILLIAM CO Headwaters to mouth at XDW

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	3.75 MILES	01111	**2004**	**2016**	VAP-F13R-09 Not supporting of the Recreation Use goal based on a fecal coliform violation rate of 2/3 at the Route 604 (8-XDX000.38).

Sources: Source Unknown

TMDL Watershed Name: **Perrin River, Upper**

TMDL Group ID: **01274**

VAT-F27E_PRN01A00 **Perrin River - Upper** GLOUCESTER CO North shore York River near Cuba Island. From DSS marker "D-Buckle" upstream to headwaters. DSS condemnation # 046-081A, 10/2/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.12 SQUARE MILES	01274	**1998**	**2010**	VAT-F27E-14 VDH-DSS condemnation #046-081A, 10/2/2004

Sources: Source Unknown

TMDL Watershed Name: **Po River**

TMDL Group ID: **00858**

VAN-F16R_POR01A02 **Po River** SPOTSYLVANIA CO Segment begins at the confluence with Glady Run and continues downstream until the confluence with an unnamed tributary to the Po River at rivermile 6.69, near the upstream boundary of the Old Trap development.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	7.38 MILES	00858	**2004**	**2016**	Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-POR008.97) at the Route 208 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) Aquatic Life Use goal. Three of 27 samples (11.1%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Po River**

TMDL Group ID: **00862**

VAN-F16R_POR02A02 **Po River** SPOTSYLVANIA CO Segment begins at the confluence with Whitehall Creek and continues downstream until the start of Wright's Pond.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	2.06 MILES	00862	**2002**	**2014**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 8 samples - 37.5%) were recorded at DEQ's ambient water quality monitoring station (8-POR022.56) at the Route 612 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Polecat Creek**

TMDL Group ID: **00864**

VAN-F20R_PCT01A00 **Polecat Creek** CAROLINE CO Segment begins at the confluence with Hackett Creek, approximately 0.5 rivermile upstream from Route 207, and continues downstream until the confluence with the Mattaponi River.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	6.63 MILES	00864	**2004**	**2016**	Sufficient excursions from the pH water quality criteria were recorded at the DEQ water quality monitoring stations (8-PCT002.29) at the Route 601 bridge and (8-PCT006.34) at the Route 207 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) Aquatic Life Use goal. Three of 9 samples (33.3%) and six of 28 samples (21.4%), respectively, were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Group ID: **60105**

VAN-F20R_PCT01A00 **Polecat Creek** CAROLINE CO Segment begins at the confluence with Hackett Creek, approximately 0.5 rivermile upstream from Route 207, and continues downstream until the confluence with the Mattaponi River.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	6.63 MILES	60105	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 13 samples - 15.4%) were recorded at DEQ's ambient water quality monitoring station (8-PCT002.29) at the Route 601 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Poropotank River & Morris Bay**

TMDL Group ID: **01263**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
VAT-F26E_PTK01A00	**Poropotank River & Morris Bay**	GLOUCESTER CO KING AND QUEEN CO	Described in VDH-DSS shellfish condemnation # 128A, 11/5/2004 Segment altered in 2006 YRKMH.

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.83	SQUARE MILES	01263	**1998**	**2010**	VAT-F26E-14 VDH-DSS Condemnation 048-128A, 11/4/2005

Sources: Source Unknown

TMDL Watershed Name: **Queen's Creek**

TMDL Group ID: **00328**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
VAT-F26E_QEN01A02	**Queen's Creek**	YORK CO	South shore York River, south of Camp Peary Naval Reservation. From end of tidal waters downstream to mouth as described in DSS shellfish condemnation #051-035A, 10/17/2004. Size adjusted in 2006 YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	0.42	SQUARE MILES	00328	**2006**	**2010**	VAT-F26E-03 The segment was previously assessed as not supporting the Recreation Use due to fecal coliform violations at station 8-QEN002.47. The TMDL was due in 2010. During the 2006 cycle, the impairment converted to enterococci (3/13), however the original due date was maintained.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Queen's Creek**

TMDL Group ID: **01264**

VAT-F26E_QEN01A02 **Queen's Creek** YORK CO

South shore York River, south of Camp Peary Naval Reservation. From end of tidal waters downstream to mouth as described in DSS shellfish condemnation #051-035A, 10/17/2004.

Size adjusted in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.42	SQUARE MILES	01264	**1998**	**2010**	VAT-F26E-16 VDH-DSS Shellfish Condemnation 051-035A, 10/7/2004

Sources: Source Unknown

TMDL Watershed Name: **Reedy Creek**

TMDL Group ID: **00327**

VAN-F21R_RDY01A00 **Reedy Creek** CAROLINE CO

Segment begins at the headwaters of Reedy Creek and continues downstream until the start of Reedy Millpond.

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	12.40	MILES	00327	**1998**	**2010**	Sufficient excursions of the pH water quality criteria were recorded at the DEQ water quality monitoring station (8-RDY003.43) at the Route 648 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Four of six samples (66.7%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Group ID: **00866**

VAN-F21R_RDY01A00 **Reedy Creek** CAROLINE CO

Segment begins at the headwaters of Reedy Creek and continues downstream until the start of Reedy Millpond.

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	12.40	MILES	00866	**2004**	**2016**	Although the data obtained during the 2006 assessment window shows exceedances of the instantaneous fecal coliform bacteria criterion (1 of 7 samples - 14.3%) is categorized as not assessed, very little data has been collected from the DEQ's ambient water quality monitoring station (8-RDY003.43) at Route 648 since the previous assessment window. The segment shall remain categorized as impaired.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Root Swamp**

TMDL Group ID: **60119**

VAN-F22R_ROT01A06 **Root Swamp** KING AND QUEEN CO Segment begins at the headwaters of Root Swamp and continues downstream until the confluence with Beverly Run.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	7.88 MILES	60119	**2006**	**2018**	Sufficient excursions from the pH water quality criteria were recorded at the DEQ special study monitoring station (8-ROT003.65) at the Route 649 bridge and ambient monitoring station (8-ROT007.85) at the Route 635 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Three of six samples (50.0%) and two of two samples (100%), respectively, were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Watershed Name: **Root Swamp, Unnamed Tributary**

TMDL Group ID: **60111**

VAN-F22R_XDY01A06 **Unnamed tributary to Root Swamp** KING AND QUEEN CO Segment begins at the headwaters of an unnamed tributary to Root Swamp and continues downstream until the confluence with Root Swamp.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.72 MILES	60111	**2006**	**2018**	Sufficient exceedances of the instantaneous dissolved oxygen criterion (2 of 6 samples - 33.3%) were recorded at DEQ's special study monitoring station (8-XDY000.27) at the Route 689 bridge to assess this stream segment as not supporting of the aquatic life use goal for the 2006 water quality assessment.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Group ID: **60120**

VAN-F22R_XDY01A06 **Unnamed tributary to Root Swamp** KING AND QUEEN CO Segment begins at the headwaters of an unnamed tributary to Root Swamp and continues downstream until the confluence with Root Swamp.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	0.72 MILES	60120	**2006**	**2018**	Sufficient excursions from the pH water quality criteria were recorded at the DEQ special study monitoring station (8-XDY000.27) at the Route 689 bridge to assess this segment as not supporting of the Clean Water Act's (CWA's) aquatic life use goal. Six of six samples (100%) were below the lower range (6.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Sarah Creek**

TMDL Group ID: **01275**

VAT-F27E_SRH01A00	**Sarah Creek - Upper**	GLOUCESTER CO	North shore York River near Gloucester Point. Segment extends from headwaters of branches of Sarah Creek downstream to narrows at Gloucester Banks. DSS condemnation # 046-052, 10/2/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.56	SQUARE MILES	01275	**1998**	**2010**	VAT-F27E-15 VDH-DSS condemnation #046-052, 10/2/2004

Sources: Source Unknown

TMDL Watershed Name: **Skimino Creek**

TMDL Group ID: **01265**

VAT-F26E_SKM01A00	**Skimino Creek**	YORK CO	From estuarine/riverine transition to mouth. DSS shellfish condemnation #050-087, 8/25/2000.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.07	SQUARE MILES	01265	**1998**	**2010**	VAT-F26E-17 VDH-DSS Condemnation 050-087, 08/25/2000

Sources: Source Unknown

TMDL Watershed Name: **South Anna River**

TMDL Group ID: **00242**

VAN-F01R_SAR02A02	**South Anna River**	LOUISA CO ORANGE CO	Segment begins at the headwaters of the South Anna River and continues downstream until the confluence with Dove Fork.

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	7.02	MILES	00242	**2006**	**2010**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (5 of 12 samples - 41.7%) were recorded at DEQ's ambient water quality monitoring station (8-SAR097.82) at the Route 603 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2002.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **South Anna River**

TMDL Group ID: **00244**

VAP-F04R_SAR03B06 **South Anna River** HANOVER CO From the UT above Horseshoe Bridge Road to the Ashland Municipal STP discharge.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	8.96 MILES	00244	**2002**	**2014**	VAP-F04R-01

The South Anna River from Route 33 to the Ashland Municipal STP was assessed as fully supporting but threatened during the 1998 cycle. In 2002, the segment was extended upstream to Taylors Creek and downgraded to impaired.

During the 2006 cycle, E. Coli monitoring was conducted at the Route 33 bridge (8-SAR021.22), as well as at new stations 8-SAR014.47 and 8-SAR012.42. Violation rates were acceptable at the upstream stations (1/12 at 8-SAR021.22 and 0/9 at 8-SAR014.47), however there were 3 violations out of 12 samples at 8-SAR012.42. Because of the fully supporting status of the upstream portion, the impaired segment has been shortened from the UT above Horseshoe Bridge Road downstream to the Ashland Municipal STP. The TMDL is due in 2014, but is currently in progress.

Sources: Source Unknown

TMDL Group ID: **00854**

VAN-F02R_SAR01A00 **South Anna River** LOUISA CO Segment begins at the confluence with Roundabout Creek and continues downstream until the confluence with Beaver Creek.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	6.27 MILES	00854	**2006**	**2016**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 8 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station (8-SAR076.10) at the Route 604 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 2004.

Sources: Source Unknown

Recreation	**Fecal Coliform**		00854	**2004**	**2016**	For the 2004 assessment, two of 18 samples (11.1%) exceeded the instantaneous fecal coliform criteria resulting in an assessment of not supporting the recreation use goal. For this assessment period, one of nine samples (11.1%), from station 8-SAR070.96, at Route 646, exceeded the instantaneous fecal coliform criteria. Based on the fecal coliform data, there is insufficient information to determine if the use is supported or not. The segment will remain listed for a fecal coliform bacteria impairment.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **South Anna River**

TMDL Group ID: **60098**

VAN-F01R_SAR01A02 **South Anna River** LOUISA CO

Segment begins at the confluence with Dove Fork and continues downstream until the mouth of waterbody F01, at the confluence of Wheeler Creek to the South Anna River.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	7.58 MILES	60098	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (5 of 19 samples - 57.1%) were recorded at DEQ's ambient water quality monitoring station (8-SAR096.83) at the Route 15 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Group ID: **60100**

VAN-F02R_SAR02A00 **South Anna River** LOUISA CO

Segment begins at the start of waterbody F02R, where Wheeler Creek intersects the South Anna River, and continues downstream until the confluence with Rock Creek.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	4.07 MILES	60100	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (4 of 11 samples - 36.4%) were recorded at DEQ's ambient water quality monitoring station (8-SAR089.35) at the Route 613 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

Recreation	**Fecal Coliform**		60100	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (4 of 11 samples - 36.4%) were recorded at DEQ's ambient water quality monitoring station (8-SAR089.35) at the Route 613 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

VAN-F03R_SAR03A06 **South Anna River** LOUISA CO

Segment begins at the confluence with Northeast Creek and continues downstream until the confluence with an unnamed tributary to the South Anna River, approximately rivermile 66.97.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	1.76 MILES	60100	**2006**	**2018**	Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 10 samples - 20.0%) were recorded at DEQ's ambient water quality monitoring station (8-SAR068.57) at the Route 605 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **South Anna River**

TMDL Group ID: **60108**

VAN-F01R_SAR02A02 **South Anna River** — LOUISA CO, ORANGE CO — Segment begins at the headwaters of the South Anna River and continues downstream until the confluence with Dove Fork.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Benthic-Macroinvertebrate Bioassessments (Streams)**	7.02 MILES	60108	**2006**	**2018**	DEQ benthic macroinvertebrate biological monitoring finds this segment to be moderately impaired, due to scores from one sampling event in Spring 2003 and one sampling event in Spring 2004.

Sources: Source Unknown

TMDL Watershed Name: **South River**

TMDL Group ID: **00863**

VAN-F19R_STH01A00 **South River** — CAROLINE CO — Segment begins at the confluence with White Run, approximately 0.6 rivermile upstream from Route 638, and continues downstream until the confluence with Mays Run, at rivermile 1.73.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	3.25 MILES	00863	**2004**	**2016**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 16 samples - 12.5%) were recorded at DEQ's ambient water quality monitoring station (8-STH004.37) at the Route 638 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Stagg Creek**

TMDL Group ID: **10000**

VAP-F04R_STG01A06 **Stagg Creek** — HANOVER CO — Headwaters to mouth at the South Anna River

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	6.50 MILES	10000	**2006**	**2018**	VAP-F04R-03 Stagg Creek was assessed as not supporting the Recreation Use due to E. coli violation rates of 2/4 at 8-STG005.46 and 5/12 at 8-STG001.00.

Sources: Agriculture
Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Sullens Creek**

TMDL Group ID: **01108**

VAP-F13R_SLN01A00 **Sullens Creek** KING WILLIAM CO From the pond at Etna Mills downstream to Mehixen Creek.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	2.68 MILES	01108	**2004**	**2016**	VAP-F13R-06 Not supporting of the Aquatic Life Use goal based on a pH violation rate of 3/11 at the Route 652 bridge (8-SLN001.46).

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Source Unknown

TMDL Watershed Name: **Ta River**

TMDL Group ID: **00861**

VAN-F18R_TAR01A00 **Ta River** SPOTSYLVANIA CO Segment begins at the confluence with Bluff Run, approximately 0.7 rivermile upstream from Route 738, and continues downstream until the confluence with the Mat River, forming the Matta River.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	3.27 MILES	00861	**2002**	**2014**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (3 of 12 samples - 25.0%) were recorded at DEQ's ambient water quality monitoring station (8-TAR002.40) at the Route 738 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Taskinas Creek**

TMDL Group ID: **01266**

VAT-F26E_TSK01A00 **Taskinas Creek** JAMES CITY CO As described in DSS shellfish condemnation #166, 4/27/1989.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.02 SQUARE MILES	01266	**2004**	**2010**	VAT-F26E-18 VDH-DSS condemnation 166, 4/27/1989

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Tastine Swamp and Little Tastine Swamp**

TMDL Group ID: **01125**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
VAP-F25R_TST01A98	**Tastine Swamp, Little Tastine Swamp**	KING AND QUEEN CO	From the headwaters of Little Tastine Swamp to Corbin Pond

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	6.02 MILES	01125	**2002**	**2014**	VAP-F25R-01

Tastine Swamp from the Route 611 bridge downstream to Corbins Pond was initially assessed in 1998 as fully supporting but threatened of the Recreation and Aquatic Life use goals.

During the year 2002 cycle the segment was downgraded and extended to incorporate Little Tastine Swamp.

In the 2004 cycle, the segment continued to be impaired of both goals based on dissolved oxygen and fecal coliform violation rates of 3/20 at 8-TST001.81 (Route 611 bridge).

There has been no additional monitoring since 2001.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Group ID: **01126**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
VAP-F25R_TST01A98	**Tastine Swamp, Little Tastine Swamp**	KING AND QUEEN CO	From the headwaters of Little Tastine Swamp to Corbin Pond

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	6.02 MILES	01126	**2002**	**2014**	VAP-F25R-01

Tastine Swamp from the Route 611 bridge downstream to Corbins Pond was initially assessed in 1998 as fully supporting but threatened of the Recreation and Aquatic Life use goals.

During the year 2002 cycle the segment was downgraded and extended to incorporate Little Tastine Swamp.

In the 2004 cycle, the segment continued to be impaired of both goals based on dissolved oxygen and fecal coliform violation rates of 3/20 at 8-TST001.81 (Route 611 bridge).

There has been no additional monitoring since 2001.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Terrys Run**

TMDL Group ID: **00219**

VAN-F07R_TRY01A00 **Terrys Run** ORANGE CO

Segment begins at the confluence with Riga Run and continues downstream until the confluence with Lake Anna.

VA Overall AU Category: **5D**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	1.83 MILES	00219	**2006**	**2005**	A bacteria TMDL for the Terrys Run watershed was submitted to the U.S. EPA and approved November 4, 2005. The sources of bacteria requiring reductions are pet, livestock and wildlife waste delivered directly to the stream or via pastureland or forest, human contributions from straight pipes, failing septic systems, and leaking sanitary sewers, and biosolid application. Sufficient exceedances of the instantaneous E.coli bacteria criterion (8 of 16 samples - 50.0%) were recorded at DEQ's ambient water quality monitoring station (8-TRY004.98) at the Route 629 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. The segment was previously listed for a fecal coliform bacteria impairment, beginning in 1998. Segment listed as Category 4A - Federal ID NA.

Sources:
- Grazing in Riparian or Shoreline Zones
- Impacts from Land Application of Wastes
- Livestock (Grazing or Feeding Operations)
- Runoff from Forest/Grassland/Parkland
- Sewage Discharges in Unsewered Areas
- Wastes from Pets
- Waterfowl
- Wildlife Other than Waterfowl

TMDL Group ID: **00855**

VAN-F07R_TRY02A02 **Terrys Run** ORANGE CO

Segment begins at the confluence with Horsepen Branch and continues downstream until the confluence with Riga Run.

VA Overall AU Category: **5D**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	3.62 MILES	00855	**2002**	**2014**	While the data appear to show the dissolved oxygen as supporting the aquatic life use, additional special study sampling, which indicates that a dissolved oxygen impairment exists, is ongoing. Currently, additional information is being collected. Until the additional data are assessed, the segment shall continue to be classified as impaired.

Sources:
- Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Terrys Run**

TMDL Group ID: **60102**

VAN-F07R_TRY02A02 **Terrys Run** ORANGE CO Segment begins at the confluence with Horsepen Branch and continues downstream until the confluence with Riga Run.

VA Overall AU Category: **5D**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	3.62 MILES	60102	**2006**	**2005**	A bacteria TMDL for the Terrys Run watershed was submitted to the U.S. EPA and approved November 11, 2005. The sources of bacteria requiring reductions are pet, livestock and wildlife waste delivered directly to the stream or via pastureland or forest, human contributions from straight pipes, failing septic systems, and leaking sanitary sewers, and biosolid application. Sufficient exceedances of the instantaneous E.coli bacteria criterion (2 of 2 samples - 100%) were recorded at DEQ's special study monitoring station (8-TRY006.72) at the Route 624 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment. Segment listed as Category 4A - Federal ID NA.

Sources: Grazing in Riparian or Shoreline Zones
Impacts from Land Application of Wastes
Livestock (Grazing or Feeding Operations)
Runoff from Forest/Grassland/Parkland
Sewage Discharges in Unsewered Areas
Wastes from Pets
Waterfowl
Wildlife Other than Waterfowl

TMDL Watershed Name: **Timberneck Creek**

TMDL Group ID: **01276**

VAT-F27E_TMB01A00 **Timberneck Creek** GLOUCESTER CO North shore York River, northeast of Catlett Islands. DSS condemnation 047-003, 11/4/2003.

Area reduced and size adjusted in 2006 cycle

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.24 SQUARE MILES	01276	**1998**	**2010**	VAT-F27E-15 VDH-DSS condemnation 047-003, 11/4/2003.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Tomahawk Creek**

TMDL Group ID: **30105**

VAN-F07R_THK01A02 **Tomahawk Creek** ORANGE CO Segment begins at the headwaters of Tomahawk Creek and continues downstream until the confluence with Church Run.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	3.25 MILES	30105	**2004**	**2016**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (8-THK000.09) at the Route 612 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **Totopotomoy Creek**

TMDL Group ID: **00250**

VAP-F13R_TPT01A98 **Totopotomoy Creek** HANOVER CO From Strawhorn Creek to the Pamunkey River.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Escherichia coli**	9.60 MILES	00250	**2006**	**2014**	VAP-F13R-02 Totopotomoy Creek was initially listed in 2002 as not supporting of the Recreation Use goal based on fecal coliform violations at the Route 606 bridge (8-TPT004.37). The bacteria TMDL is due in 2014. During the 2006 cycle, the impairment switched to E. coli (2/12).

Sources: Source Unknown

TMDL Group ID: **01110**

VAP-F13R_TPT01A98 **Totopotomoy Creek** HANOVER CO From Strawhorn Creek to the Pamunkey River.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	9.60 MILES	01110	**2004**	**2016**	VAP-F13R-02 In the 2004 cycle, the segment was also assessed as not supporting the Aquatic Life use due to pH violations at 8-TPT004.37. The pH TMDL is due in 2016. During the 2006 cycle, the violation rate was 4/38.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Walkerton Branch**

TMDL Group ID: **01122**

VAP-F23R_WKN01A00 **Walkerton Branch** KING AND QUEEN CO Watershed above Walkerton Millpond.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**pH**	3.95 MILES	01122	**2004**	**2016**	VAP-F23R-03 (01122)

Walkerton Branch was initially assessed as not supporting of the Aquatic Life Use goal in 2004 based on a pH violations at Route 636 (8-WKN003.16). During the 2006 cycle, the segment remained impaired for pH (10/11). The pH TMDL is due in 2016. The source is believed to be natural conditions.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

TMDL Group ID: **10001**

VAP-F23R_WKN01A00 **Walkerton Branch** KING AND QUEEN CO Watershed above Walkerton Millpond.

VA Overall AU Category: **5C**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	3.95 MILES	10001	**2006**	**2018**	VAP-F23R-03

Walkerton Branch was initially assessed as not supporting of the Aquatic Life Use goal in 2004 based on a pH violations at Route 636 (8-WKN003.16). During the 2006 cycle, the segment remained impaired for pH (10/11), and was also listed for dissolved oxygen (8/11). The pH TMDL is due in 2016 and the DO TMDL is due in 2018.

Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Waller Mill Reservoir [PWS]**

TMDL Group ID: **70000**

VAT-F26L_QEN01A06 **Waller Mill Reservoir [PWS]** YORK CO Headwater impounded portion of Queen Cr. North of Williamsburg in York County.

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	315.00	ACRES	70000	**2006**	**2018**	VAT-F26L-01

Water quality monitoring was performed at four stations on Waller Mill Reservoir. Dissolved oxygen violations in bottom waters were observed at all four stations. The downstream stations all showed evidence of stratification and the TSIs were <60, indicating mesotrophic conditions. Therefore it is believed that the DO violations are caused by natural stratification and not indicative of nutrient overenrichment.

However, station 8-QEN008.58 did not meet the current assessment guidance definition of stratification (>4°C differential during June through September), although the station was stratified in April. Because the station was not stratified during the summer months, the station, and therefore the entire lake must be classified a Category 5A water.

Sources: Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia
Source Unknown

TMDL Watershed Name: **Ware Creek**

TMDL Group ID: **01267**

VAT-F26E_WRE01A00 **Ware Creek** JAMES CITY CO, NEW KENT CO Tidal portion of creek and tribs as described in DSS shellfish condemnation #73, 4/27/1989.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.10	SQUARE MILES	01267	**1998**	**2010**	VAT-F26E-19 (SF)

VDH-DSS condemnation 073, 4/27/1989

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **Wheeler Creek**

TMDL Group ID: **60099**

VAN-F01R_WLR01A04 **Wheeler Creek** LOUISA CO

Segment begins at the confluence with Camp Creek and continues downstream until the confluence with Hudson Creek.

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Fecal Coliform**	0.22	MILES	60099	**2006**	**2018**	Sufficient exceedances of the instantaneous fecal coliform bacteria criterion (2 of 7 samples - 28.6%) were recorded at DEQ's ambient water quality monitoring station (8-WLR000.26) at the Route 640 bridge to assess this stream segment as not supporting of the recreation use goal for the 2006 water quality assessment.

Sources: Source Unknown

TMDL Watershed Name: **York River**

TMDL Group ID: **01268**

VAT-F26E_PHB01A00 **Philbates Creek** NEW KENT CO

From dam to confluence with York River. DSS shellfish condemnation #049-004A.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.01	SQUARE MILES	01268	**2004**	**2010**	VAT-F26E-20 Portion of VDH-DSS Shellfish Condemnation 049-004A, 11/5/004

Sources: Source Unknown

VAT-F26E_YRK01A04 **York River** KING AND QUEEN CO
NEW KENT CO

Start of York River at West Point (RM 32.0) downstream to the boundary of DSS condemnation # 049-004A. Segment expanded in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	5.48	SQUARE MILES	01268	**2002**	**2014**	VAT-F26E-20 Portion of VDH-DSS Shellfish Condemnation of 049-004A, 11/5/2004

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River**

TMDL Group ID: **01268**

VAT-F26E_ZZZ02A06 — **Unsegmented estuaries in F26E** — KING AND QUEEN CO, NEW KENT CO — Non segmented areas within VDH-DSS condemnation 049-004A, 11/5/2004

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Shellfishing	**Fecal Coliform**	0.09 SQUARE MILES	01268	**2002**	**2014**	VAT-F26E-20

Portion of VDH-DSS Shellfish Condemnation 049-004A, 11/5/2004

Sources: Source Unknown

TMDL Group ID: **01482**

VAT-F26E_YRK01A04 — **York River** — KING AND QUEEN CO, NEW KENT CO — Start of York River at West Point (RM 32.0) downstream to the boundary of DSS condemnation # 049-004A. Segment expanded in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	5.48 SQUARE MILES	01482	**2004**	**2016**	VAT-F26E-01

CBP segment YRKMHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segments remained impaired during the 2006 cycle. The TMDL is due in 2016.

Sources: Source Unknown

VAT-F26E_YRK02A02 — **York River (Middle)** — JAMES CITY CO, NEW KENT CO — Segment starts at end of VDH-DSS condemnation 049-004A, 11/5/2004 and extends downstream to the MSN boundary near Mt. Folly/Poropotank Bay

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	4.81 SQUARE MILES	01482	**2004**	**2016**	VAT-F26E-01

CBP segment YRKMHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segments remained impaired during the 2006 cycle. The TMDL is due in 2016.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River**

TMDL Group ID: **01482**

VAT-F26E_YRK02B06 — **York River (Middle)** — GLOUCESTER CO, KING AND QUEEN CO

Segment starts at MSN boundary near Mt. Folly/Poropotank Bay downstream to line from Skimino Cr. to north shore @ Rt 618 at Copahasic (RM 18.8) . No DSS condemnation.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	9.47	SQUARE MILES	01482	**2004**	**2016**	VAT-F26E-01

CBP segment YRKMHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segments remained impaired during the 2006 cycle.

Sources: Source Unknown

VAT-F26E_YRK03A00 — **York River (Lower)** — GLOUCESTER CO, YORK CO

Segment starts at line from Skimino Cr. to N shore @ Rt 618 @ Copahasic (RM 18.7) and extends downstream to the mesohaline/polyhaline boundary.

Segment extent and size altered in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	13.20	SQUARE MILES	01482	**2004**	**2016**	VAT-F26E-01

CBP segment YRKMHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segments remained impaired during the 2006 cycle.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River**

TMDL Group ID: **01487**

VAT-F27E_YRK01A00 — **York River (Lower Middle)** — GLOUCESTER CO, YORK CO

The polyhaline boundary downstream to line from Roosevelt Pond N to Mumfort Islands at RM 7.49, excluding otherwise segmented DSS shellfish condemnation areas.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	8.30	SQUARE MILES	01487	**2004**	**2016**	VAT-F26E-01

CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.

Sources: Source Unknown

VAT-F27E_YRK01B00 — **York R (DSS Condemnation - Cheatham Annex)** — YORK CO

Segment adjacent to Cheatham Annex, VDH-DSS condemnation 051-035B, 10/7/2004 - administratively condemned due to National Security.

Size adjusted in 2006.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	0.26	SQUARE MILES	01487	**2004**	**2016**	VAT-F26E-01

CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River**

TMDL Group ID: **01487**

VAT-F27E_YRK01C00 — **York R (DSS Condemnation - Naval Weapons Sta.)** — YORK CO

Segment adjacent to Yorktown Naval Weapons Sta., VDH-DSS condemnation 051-040, 9/18/2001 - administratively closed due to National Security.

Size adjusted in 2006 cycle

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	0.23	SQUARE MILES	01487	**2004**	**2016**	VAT-F26E-04

CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.

Sources: Source Unknown

VAT-F27E_YRK01D06 — **York River** — GLOUCESTER CO, YORK CO — Yorktown Beach

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	0.02	SQUARE MILES	01487	**2004**	**2016**	VAT-F26E-01

CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River**

TMDL Group ID: **01487**

VAT-F27E_YRK01E06 — **York River** — GLOUCESTER CO, YORK CO — Gloucester Point Beach

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	0.02 SQUARE MILES	01487	**2004**	**2016**	VAT-F26E-01

CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.

Sources: Source Unknown

VAT-F27E_YRK02A00 — **York River - Lower** — GLOUCESTER CO, YORK CO — Segment starts at line across river from Roosevelt Pond to Mumfort Islands (RM 7.49), downstream to mouth (RM 0.0) near Thoroughfare Creek. No DSS shellfish condemnation.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	11.56 SQUARE MILES	01487	**2004**	**2016**	VAT-F26E-01

CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.

Sources: Source Unknown

VAT-F27E_YRK02B00 — **York R (Lower - administrative closures DSS 6B&C)** — YORK CO — Described in VDH-DSS (administrative) shellfish condemnation 052-006 B&C, 3/7/2002 adjacent Wormley Cr., HRSD STP & power plant and refinery.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	0.51 SQUARE MILES	01487	**2004**	**2016**	VAT-F26E-01

CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River**

TMDL Group ID: **01487**

VAT-F27E_YRK02C00 **York River - AMOCO** YORK CO

Segment within YRK02A00, DSS (ADMINISTRATIVE) shellfish condemnation #052-006A, 3/7/2002 (portion in York R), adjacent Wormley Cr. & AMOCO.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Estuarine Bioassessments**	2.75	SQUARE MILES	01487	**2004**	**2016**	VAT-F26E-01

CBP segment YRKPHa was assessed as impaired of the Clean Water Act's Aquatic Life Use Support Goal for the 2004 305(b) report due to the results of benthic BIBI probabilistic station surveys (VERSAR 2002). The segment remained impaired during the 2006 cycle.

Sources: Source Unknown

TMDL Group ID: **70002**

VAT-F26E_YRK01A04 **York River** KING AND QUEEN CO, NEW KENT CO

Start of York River at West Point (RM 32.0) downstream to the boundary of DSS condemnation # 049-004A. Segment expanded in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	**Enterococcus**	5.48	SQUARE MILES	70002	**2006**	**2018**	VAT-F26E-05

This segment of the York River was assessed as not supporting the Recreation Use due to an enterococci violation rate of 7/28 at station 8-YRK031.39. The TMDL is due in 2018.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

York River Basin

TMDL Watershed Name: **York River and Tributaries**

TMDL Group ID: **70001**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
VAT-F26E_QEN01A02	**Queen's Creek**	YORK CO	South shore York River, south of Camp Peary Naval Reservation. From end of tidal waters downstream to mouth as described in DSS shellfish condemnation #051-035A, 10/17/2004. Size adjusted in 2006 YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.42	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04 The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs. The TMDL is due in 2018.

Sources: Source Unknown

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
VAT-F26E_YRK01A04	**York River**	KING AND QUEEN CO NEW KENT CO	Start of York River at West Point (RM 32.0) downstream to the boundary of DSS condemnation # 049-004A. Segment expanded in 2006 YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	5.48	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04 The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs. The TMDL is due in 2018.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River and Tributaries**

TMDL Group ID: **70001**

VAT-F26E_YRK02A02 — **York River (Middle)** — JAMES CITY CO, NEW KENT CO

Segment starts at end of VDH-DSS condemnation 049-004A, 11/5/2004 and extends downstream to the MSN boundary near Mt. Folly/Poropotank Bay

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	4.81	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04

The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs. The TMDL is due in 2018.

Sources: Source Unknown

VAT-F26E_YRK02B06 — **York River (Middle)** — GLOUCESTER CO, KING AND QUEEN CO

Segment starts at MSN boundary near Mt. Folly/Poropotank Bay downstream to line from Skimino Cr. to north shore @ Rt 618 at Copahasic (RM 18.8) . No DSS condemnation.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	9.47	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04

The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River and Tributaries**

TMDL Group ID: **70001**

VAT-F26E_YRK03A00 — **York River (Lower)** — GLOUCESTER CO, YORK CO

Segment starts at line from Skimino Cr. to N shore @ Rt 618 @ Copahasic (RM 18.7) and extends downstream to the mesohaline/polyhaline boundary.

Segment extent and size altered in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	13.20	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04

The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

VAT-F27E_KNG01A02 — **King Creek - Upper** — YORK CO

South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. Headwaters area of creek downstream to RM 0.50. Portion of VDH-DSS condemnation 051-035C, 10/7/2004

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.19	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04

Kings Creek is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

There were exceedances of PCB tissue threshold levels in croaker and gizzard shad at station 8-KNG001.36 in 2003.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River and Tributaries**

TMDL Group ID: **70001**

VAT-F27E_KNG02A02 **King Creek - Lower** YORK CO

South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. From RM 0.5 to mouth of creek at confluence with York River (RM 0.0). Portion of VDH-DSS condemnation 051-035C, 10/7/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.14	SQUARE MILES	70001	**2004**	**2014**	VAT-F27E-06/VAT-F26E-04

There were sufficient exceedances of criterion-based fish tissue value for PCBs in 4 species of fish sampled in 2000 at monitoring station (8-KNG000.18) to assess this segment as not supporting of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report. The TMDL is due in 2014. In addition, during the 2006 cycle, Kings Creek was included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

VAT-F27E_WOR01A00 **Wormley Creek (Upper)** YORK CO

South shore York River near Amoco facility southeast of Gloucester Point. Upstream portion of DSS (ADMINISTRATIVE) condemnation #052-006A.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.17	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04

Tidal Wormleys Creek is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

York River Basin

TMDL Watershed Name: **York River and Tributaries**

TMDL Group ID: **70001**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
VAT-F27E_WOR02A02	**Wormley Creek (Lower)**	YORK CO	South shore York River near Amoco facility southeast of Gloucester Point. One half mile around CORE fish tissue station @ 8-WOR000.35. Downstream portion of DSS condemnation no. 052-006A, 3/7/2002 YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.16	SQUARE MILES	70001	**2004**	**2014**	VAT-F27E-07/VAT-F26E-04 Data collected for PCBs in fish tissue @ 8-WOR000.35 indicated sufficient exceedance of the criterion based tissue values is used to evaluate this segment as not supporting of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report. During the 2006 cycle, tidal Wormleys Creek was included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
VAT-F27E_YRK01A00	**York River (Lower Middle)**	GLOUCESTER CO YORK CO	The polyhaline boundary downstream to line from Roosevelt Pond N to Mumfort Islands at RM 7.49, excluding otherwise segmented DSS shellfish condemnation areas. YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	8.30	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04 The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River and Tributaries**

TMDL Group ID: **70001**

VAT-F27E_YRK01B00 **York R (DSS Condemnation - Cheatham Annex)** YORK CO

Segment adjacent to Cheatham Annex, VDH-DSS condemnation 051-035B, 10/7/2004 - administratively condemned due to National Security.

Size adjusted in 2006.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.26	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04

The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

VAT-F27E_YRK01C00 **York R (DSS Condemnation - Naval Weapons Sta.)** YORK CO

Segment adjacent to Yorktown Naval Weapons Sta., VDH-DSS condemnation 051-040, 9/18/2001 - administratively closed due to National Security.

Size adjusted in 2006 cycle

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.23	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04

The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River and Tributaries**

TMDL Group ID: **70001**

VAT-F27E_YRK01D06 **York River** GLOUCESTER CO, YORK CO — Yorktown Beach, YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.02	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04 (PCBs)

The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

VAT-F27E_YRK01E06 **York River** GLOUCESTER CO, YORK CO — Gloucester Point Beach, YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.02	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04 (PCBs)

The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

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*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River and Tributaries**

TMDL Group ID: **70001**

VAT-F27E_YRK02A00 — **York River - Lower** — GLOUCESTER CO, YORK CO

Segment starts at line across river from Roosevelt Pond to Mumfort Islands (RM 7.49), downstream to mouth (RM 0.0) near Thoroughfare Creek. No DSS shellfish condemnation.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	11.56 SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04 (PCBs)

The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

VAT-F27E_YRK02B00 — **York R (Lower - administrative closures DSS 6B&C)** — YORK CO

Described in VDH-DSS (administrative) shellfish condemnation 052-006 B&C, 3/7/2002 adjacent Wormley Cr., HRSD STP & power plant and refinery.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	0.51 SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04

The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River and Tributaries**

TMDL Group ID: **70001**

VAT-F27E_YRK02C00	**York River - AMOCO**	YORK CO	Segment within YRK02A00, DSS (ADMINISTRATIVE) shellfish condemnation #052-006A, 3/7/2002 (portion in York R), adjacent Wormley Cr. & AMOCO. YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	**PCB in Fish Tissue**	2.75	SQUARE MILES	70001	**2006**	**2018**	VAT-F26E-04 (PCBs) The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individuals such as women who are pregnant or may become pregnant, nursing mothers, and young children are advised not to eat any fish contaminated with PCBs.

Sources: Source Unknown

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_ABD01A00 **Aberdeen Creek** GLOUCESTER CO

Southeast of Clay Bank, south of Rt. 631. From the end of tidal waters downstream to the mouth. DSS shellfish direct harvesting condemnation # 047-078 A.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.13	SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 The Shallow-Water Submerged Aquatic Vegetation Use is impaired based on failure to meet the SAV acreage criteria provided by the CBPO 12/1/2005.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Non-Point Source)
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			00330	**2006**	**2010**	VAT-F26E-02 The Shallow-Water Submerged Aquatic Vegetation Use is impaired based on failure to meet the SAV acreage criteria provided by the CBPO 12/1/2005.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Non-Point Source)
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_ADM01A00 **Adams Creek** GLOUCESTER CO

Eastern shore of York River near Purtan Island. VDH-DSS shellfish condemnation # 048-128B, 11/5/2004.

Size adjusted in 2006 cycle, although area did not change

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.18 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_BAK01A00 **Bakers Creek** KING AND QUEEN CO

North shore York R SE of West Point Municipal Airport. Estuarine portion of creek. Portion of DSS condemnation # 049-004A.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.01 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_BND01A06 **Bland Creek** GLOUCESTER CO Tidal limit to mouth

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.05 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_CTC01A06 **Carter Creek** YORK CO

Located in York County near Skimino. From mouth to estuarine/riverine transition. DSS condemnation #050-079.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.03 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_FOX01A06 **Fox Creek** GLOUCESTER CO

Fox Creek trib to York River. Located southeast of Almondsville in Gloucester Co. DSS condemnation # 72, 4/27/1989.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.02 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_HCK01A04 **Hockley Creek** KING AND QUEEN CO North shore York R NW of Belleview. Portion of DSS condemnation # 049-004A.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.04 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed both the Open Water Use's summer dissolved oxygen criteria and the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_JNS01A00 **Jones Creek** GLOUCESTER CO NW of Clay Bank, between Rts 618 & 616. From mouth to estuarine/riverine transition as described in DSS shellfish condemnation # 047-115, 11/7/2002.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.06 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02, During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_PHB01A00 **Philbates Creek** NEW KENT CO From dam to confluence with York River. DSS shellfish condemnation #049-004A.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.01	SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_PTK01A00 **Poropotank River & Morris Bay** GLOUCESTER CO, KING AND QUEEN CO

Described in VDH-DSS shellfish condemnation # 128A, 11/5/2004
Segment altered in 2006

YRKMH.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.83 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_QEN01A02 **Queen's Creek** YORK CO

South shore York River, south of Camp Peary Naval Reservation. From end of tidal waters downstream to mouth as described in DSS shellfish condemnation #051-035A, 10/17/2004.

Size adjusted in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.42 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_SKM01A00 **Skimino Creek** YORK CO From estuarine/riverine transition to mouth. DSS shellfish condemnation #050-087, 8/25/2000.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.07 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_TSK01A00 **Taskinas Creek** JAMES CITY CO As described in DSS shellfish condemnation #166, 4/27/1989.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.02 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_WRE01A00 **Ware Creek** JAMES CITY CO, NEW KENT CO — Tidal portion of creek and tribs as described in DSS shellfish condemnation #73, 4/27/1989.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.10 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02, During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_YRK01A04 **York River** KING AND QUEEN CO / NEW KENT CO

Start of York River at West Point (RM 32.0) downstream to the boundary of DSS condemnation # 049-004A. Segment expanded in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	5.48 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements. The TMDL is due in 2010

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements. The TMDL is due in 2010

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_YRK02A02 **York River (Middle)** JAMES CITY CO, NEW KENT CO

Segment starts at end of VDH-DSS condemnation 049-004A, 11/5/2004 and extends downstream to the MSN boundary near Mt. Folly/Poropotank Bay

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	4.81 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements. The TMDL is due in 2010

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_YRK02B06 **York River (Middle)** GLOUCESTER CO, KING AND QUEEN CO

Segment starts at MSN boundary near Mt. Folly/Poropotank Bay downstream to line from Skimino Cr. to north shore @ Rt 618 at Copahasic (RM 18.8) . No DSS condemnation.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	9.47	SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			00330	**2006**	**2010**	VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_YRK03A00 **York River (Lower)** GLOUCESTER CO, YORK CO

Segment starts at line from Skimino Cr. to N shore @ Rt 618 @ Copahasic (RM 18.7) and extends downstream to the mesohaline/polyhaline boundary.

Segment extent and size altered in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	13.20 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_ZZZ01A00 **Unsegmented estuaries in F26E** GLOUCESTER CO, KING AND QUEEN CO

Non segmented areas of F26. No DSS condemnation in this portion of York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.48 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_ZZZ01B06 **Unsegmented estuaries in F26E** — JAMES CITY CO, NEW KENT CO — Non segmented areas of F26 within MSN. No DSS condemnation in this portion of York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F26E_ZZZ02A06 **Unsegmented estuaries in F26E** KING AND QUEEN CO, NEW KENT CO

Non segmented areas within VDH-DSS condemnation 049-004A, 11/5/2004

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.09 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_CDB01A00 **Cedarbush Creek - Upper** GLOUCESTER CO

North shore York River, north of Catlett Islands. VDH- DSS condemnation 047-107B, 12/30/2004

Segment expanded in 2006 cycle.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.08 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_CDB02A00 **Cedarbush Creek - Lower** GLOUCESTER CO

North shore York River, north of Catlett Islands. Downstream of VDH-DSS condemnation.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.17	SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_CRT01A00 **Carter Creek (Gloucester County) - Upper portion** GLOUCESTER CO

North shore York R located NW of Catlett Islands. Upper portion of creek, as described in VDH-DSS condemnation 047-107A, 12/30/2004.

Segment expanded in 2006 cycle.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.17	SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_CRT02A00 — **Carter Creek - Lower Portion (Gloucester County)** — GLOUCESTER CO — North shore York R located NW of Catlett Islands. Downstream of VDH-DSS condemnation area.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.19 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_FEL01A00 **Felgate's Creek** YORK CO

South of Pennimon Spit, within Naval Weapons Station. Segment extends from headwaters downstream to mouth. Portion of DSS condemnation # 051-035C. In 2006: Merged with FEL02A00, which was deleted.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.25 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_IFC01A00 **Indian Field Creek** YORK CO

Southeast of Pennimon Spit, within Naval Weapons Station. DSS condemnation no. 051-130, 11/12/1998.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.12 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_KNG01A02 **King Creek - Upper** YORK CO

South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. Headwaters area of creek downstream to RM 0.50. Portion of VDH-DSS condemnation 051-035C, 10/7/2004

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.19 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_KNG02A02 **King Creek - Lower** YORK CO

South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. From RM 0.5 to mouth of creek at confluence with York River (RM 0.0). Portion of VDH-DSS condemnation 051-035C, 10/7/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.14 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Clean Sediments
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**	00330	**2006**	**2010**	VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Clean Sediments
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_PRN01A00 **Perrin River - Upper** GLOUCESTER CO

North shore York River near Cuba Island. From DSS marker "D-Buckle" upstream to headwaters. DSS condemnation # 046-081A, 10/2/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment	0.12 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_PRN02A00 **Perrin River - Lower** GLOUCESTER CO

North shore York River near Cuba Island. As described in DSS seasonal condemnation # 046-081 M1, 10/2/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Clean Sediments
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Clean Sediments
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_SRH01A00 **Sarah Creek - Upper** GLOUCESTER CO

North shore York River near Gloucester Point. Segment extends from headwaters of branches of Sarah Creek downstream to narrows at Gloucester Banks. DSS condemnation # 046-052, 10/2/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.56	SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			00330	**2006**	**2010**	VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_SRH02A00 **Sarah Creek - Lower** GLOUCESTER CO

North shore York River near Gloucester Point. Segment extends from mouth (juncture with York River) upstream to narrows at Gloucester Banks. DSS seasonal condemnation # 046-052 M1, 10/2/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.17 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_TMB01A00 **Timberneck Creek** GLOUCESTER CO

North shore York River, northeast of Catlett Islands. DSS condemnation 047-003, 11/4/2003.

Area reduced and size adjusted in 2006 cycle

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.24	SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_WOR01A00 **Wormley Creek (Upper)** YORK CO

South shore York River near Amoco facility southeast of Gloucester Point. Upstream portion of DSS (ADMINISTRATIVE) condemnation #052-006A.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.17 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_WOR02A02 **Wormley Creek (Lower)** YORK CO

South shore York River near Amoco facility southeast of Gloucester Point. One half mile around CORE fish tissue station @ 8-WOR000.35. Downstream portion of DSS condemnation no. 052-006A, 3/7/2002

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.16 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_YRK01A00 **York River (Lower Middle)** GLOUCESTER CO, YORK CO

The polyhaline boundary downstream to line from Roosevelt Pond N to Mumfort Islands at RM 7.49, excluding otherwise segmented DSS shellfish condemnation areas.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	8.30 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_YRK01B00 **York R (DSS Condemnation - Cheatham Annex)** YORK CO

Segment adjacent to Cheatham Annex, VDH-DSS condemnation 051-035B, 10/7/2004 - administratively condemned due to National Security.

Size adjusted in 2006.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.26	SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			00330	**2006**	**2010**	VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements. T

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_YRK01C00 **York R (DSS Condemnation - Naval Weapons Sta.)** YORK CO

Segment adjacent to Yorktown Naval Weapons Sta., VDH-DSS condemnation 051-040, 9/18/2001 - administratively closed due to National Security.

Size adjusted in 2006 cycle

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.23 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

Sources: Sediment Resuspension (Clean Sediment)
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_YRK01D06 **York River** GLOUCESTER CO / YORK CO — Yorktown Beach / YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.02 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_YRK01E06 **York River** GLOUCESTER CO / YORK CO — Gloucester Point Beach, YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.02	SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_YRK02A00 **York River - Lower** GLOUCESTER CO, YORK CO

Segment starts at line across river from Roosevelt Pond to Mumfort Islands (RM 7.49), downstream to mouth (RM 0.0) near Thoroughfare Creek. No DSS shellfish condemnation.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	11.56 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_YRK02B00 — **York R (Lower - administrative closures DSS 6B&C)** — YORK CO

Described in VDH-DSS (administrative) shellfish condemnation 052-006 B&C, 3/7/2002 adjacent Wormley Cr., HRSD STP & power plant and refinery.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.51	SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_YRK02C00 **York River - AMOCO** YORK CO

Segment within YRK02A00, DSS (ADMINISTRATIVE) shellfish condemnation #052-006A, 3/7/2002 (portion in York R), adjacent Wormley Cr. & AMOCO.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	2.75 SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**		00330	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **00330**

VAT-F27E_ZZZ01A00 **Unsegmented estuaries in F27E** GLOUCESTER CO, YORK CO

Non segmented estuarine areas of F27E - Lower York River. No DSS condemnations.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Aquatic Plants (Macrophytes)**	0.46	SQUARE MILES	00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Shallow-Water Submerged Aquatic Vegetation	**Aquatic Plants (Macrophytes)**			00330	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Shallow Water Use's submerged aquatic vegetation acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Clean Sediments
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sediment Resuspension (Clean Sediment)
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAP-F14E_PMK07A04 **Pamunkey River** KING WILLIAM CO, NEW KENT CO — Mesohaline boundary to mouth

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.39 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01778	**1998**	**2010**	VAP-F14E-05

The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression.

The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River.

During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded.

However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen criteria and the Shallow Water SAV acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

Open-Water Aquatic Life	**Oxygen, Dissolved**	01778	**1998**	**2010**	VAP-F14E-05	The tidal Pamunkey River was initially listed on the 1998 303(d) list as fully supporting but threatened of the aquatic life use goal because a 1995 special study showed river subject to 33% violation rate of daily mean DO standard during warm weather conditions May through October. The estuarine Pamunkey River is considered fully allocated relative to dissolved oxygen. New discharges cannot result in further DO depression. The Chesapeake Bay and its tidal tributaries were added by EPA to the 1998 303(d) list. EPA listed the impairment as dissolved oxygen violations caused by nutrient overenrichment. This listing included the entire mainstem estuarine Pamunkey River. During the year 2004 cycle, the DO violation rate was 0/47 at 8-PMK048.80, 0/48 at 8-PMK006.36, 0/213 at 8-PMK034.17, 0/48 at 8-PMK056.87, and 10/200 at 8-PMK006.36. No chlorophyll A violations were recorded. However, during the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen criteria and the Shallow Water SAV acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAP-F14E_ZZZ03A06 **Unsegmented estuaries in F14** KING WILLIAM CO, NEW KENT CO — Unsegmented portion of the watershed within SFC 004A & YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.08 SQUARE MILES	01778	**2006**	**2010**	VAP-F14E-05 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen criteria and the Shallow Water SAV acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAP-F14E-05 During the 2006 cycle, the new Chesapeake Bay water quality standards were adopted. The mesohaline York segment (which includes the mouths of the Pamunkey and Mattaponi Rivers) failed the CB 30-day open water summer dissolved oxygen criteria and the Shallow Water SAV acreage requirements.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_ABD01A00 **Aberdeen Creek** GLOUCESTER CO

Southeast of Clay Bank, south of Rt. 631. From the end of tidal waters downstream to the mouth. DSS shellfish direct harvesting condemnation # 047-078 A.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.13 SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02 The Open-Water Aquatic Life Use is impaired based on failure to meet the 30-day dissolved oxygen criteria for Open Water - Summer (CFD reference conditions using the 2/26/2006 CFD results supplied by CBPO).

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Non-Point Source)
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 The Open-Water Aquatic Life Use is impaired based on failure to meet the 30-day dissolved oxygen criteria for Open Water - Summer (CFD reference conditions using the 2/26/2006 CFD results supplied by CBPO).

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Non-Point Source)
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_ADM01A00 **Adams Creek** GLOUCESTER CO

Eastern shore of York River near Purtan Island. VDH-DSS shellfish condemnation # 048-128B, 11/5/2004.

Size adjusted in 2006 cycle, although area did not change

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.18 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_BAK01A00 **Bakers Creek** KING AND QUEEN CO

North shore York R SE of West Point Municipal Airport. Estuarine portion of creek. Portion of DSS condemnation # 049-004A.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.01	SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**			01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed both the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed both the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_BND01A06 **Bland Creek** GLOUCESTER CO Tidal limit to mouth

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.05 SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_CTC01A06 **Carter Creek** YORK CO

Located in York County near Skimino. From mouth to estuarine/riverine transition. DSS condemnation #050-079.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.03 SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_FOX01A06 **Fox Creek** GLOUCESTER CO

Fox Creek trib to York River. Located southeast of Almondsville in Gloucester Co. DSS condemnation # 72, 4/27/1989.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_HCK01A04 **Hockley Creek** KING AND QUEEN CO North shore York R NW of Belleview. Portion of DSS condemnation # 049-004A.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.04 SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed both the Open Water Use's summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_JNS01A00 **Jones Creek** GLOUCESTER CO NW of Clay Bank, between Rts 618 & 616. From mouth to estuarine/riverine transition as described in DSS shellfish condemnation # 047-115, 11/7/2002.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.06 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_PHB01A00 **Philbates Creek** NEW KENT CO From dam to confluence with York River. DSS shellfish condemnation #049-004A.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.01	SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01778	**2006**	**2010**	VAT-F26E-02

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_PTK01A00 **Poropotank River & Morris Bay** GLOUCESTER CO, KING AND QUEEN CO

Described in VDH-DSS shellfish condemnation # 128A, 11/5/2004
Segment altered in 2006

YRKMH.

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.83 SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Use	Impairment	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Open-Water Aquatic Life	**Oxygen, Dissolved**	01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_QEN01A02 **Queen's Creek** YORK CO

South shore York River, south of Camp Peary Naval Reservation. From end of tidal waters downstream to mouth as described in DSS shellfish condemnation #051-035A, 10/17/2004.

Size adjusted in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.42 SQUARE MILES	01778	**2002**	**2010**	VAT-F26E-02 During the 2002 cycle, sufficient exceedances of Virginia's water quality standard for dissolved oxygen were recorded at DEQ's ambient water quality monitoring stations on Queen Cr. to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Goal. During the 2006 cycle, the Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria. The TMDL is due in 2010.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2002**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_SKM01A00 **Skimino Creek** YORK CO From estuarine/riverine transition to mouth. DSS shellfish condemnation #050-087, 8/25/2000.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.07 SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_TSK01A00 **Taskinas Creek** JAMES CITY CO As described in DSS shellfish condemnation #166, 4/27/1989.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.02 SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_WRE01A00 **Ware Creek** JAMES CITY CO, NEW KENT CO

Tidal portion of creek and tribs as described in DSS shellfish condemnation #73, 4/27/1989.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.10 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_YRK01A04 **York River** KING AND QUEEN CO, NEW KENT CO

Start of York River at West Point (RM 32.0) downstream to the boundary of DSS condemnation # 049-004A. Segment expanded in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	5.48	SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria. The TMDL is due in 2010

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01778	**2006**	**2010**	VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria. The TMDL is due in 2010

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Non-Point Source)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_YRK02A02 **York River (Middle)** JAMES CITY CO, NEW KENT CO

Segment starts at end of VDH-DSS condemnation 049-004A, 11/5/2004 and extends downstream to the MSN boundary near Mt. Folly/Poropotank Bay

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	4.81 SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**	01778	**2006**	**2010**	VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_YRK02B06 **York River (Middle)** GLOUCESTER CO, KING AND QUEEN CO

Segment starts at MSN boundary near Mt. Folly/Poropotank Bay downstream to line from Skimino Cr. to north shore @ Rt 618 at Copahasic (RM 18.8) . No DSS condemnation.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	9.47	SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01778	**2006**	**2010**	VAT-F26E-02

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_YRK03A00 **York River (Lower)** GLOUCESTER CO, YORK CO

Segment starts at line from Skimino Cr. to N shore @ Rt 618 @ Copahasic (RM 18.7) and extends downstream to the mesohaline/polyhaline boundary.

Segment extent and size altered in 2006

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	13.20 SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)				
Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)				

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_ZZZ01A00 **Unsegmented estuaries in F26E**

GLOUCESTER CO
KING AND QUEEN CO

Non segmented areas of F26. No DSS condemnation in this portion of York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.48 SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_ZZZ01B06 **Unsegmented estuaries in F26E** JAMES CITY CO, NEW KENT CO — Non segmented areas of F26 within MSN. No DSS condemnation in this portion of York River.

YRKMH

VA Overall AU Category: **5A**

Use	Impairment	0.02 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Mesohaline Embayments**

TMDL Group ID: **01778**

VAT-F26E_ZZZ02A06 **Unsegmented estuaries in F26E** KING AND QUEEN CO, NEW KENT CO — Non segmented areas within VDH-DSS condemnation 049-004A, 11/5/2004

YRKMH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.09 SQUARE MILES	01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01778	**2006**	**2010**	VAT-F26E-02 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Mesohaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_CDB01A00 **Cedarbush Creek - Upper** GLOUCESTER CO

North shore York River, north of Catlett Islands. VDH- DSS condemnation 047-107B, 12/30/2004

Segment expanded in 2006 cycle.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment	0.08 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_CDB02A00 **Cedarbush Creek - Lower** GLOUCESTER CO

North shore York River, north of Catlett Islands. Downstream of VDH-DSS condemnation.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment	0.17	SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**			01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_CRT01A00 **Carter Creek (Gloucester County) - Upper portion** GLOUCESTER CO

North shore York R located NW of Catlett Islands. Upper portion of creek, as described in VDH-DSS condemnation 047-107A, 12/30/2004.

Segment expanded in 2006 cycle.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.17 SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)				
Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources: Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)				

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_CRT02A00 **Carter Creek - Lower Portion (Gloucester County)** GLOUCESTER CO

North shore York R located NW of Catlett Islands. Downstream of VDH-DSS condemnation area.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment	0.19 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_FEL01A00 **Felgate's Creek** YORK CO

South of Pennimon Spit, within Naval Weapons Station. Segment extends from headwaters downstream to mouth. Portion of DSS condemnation # 051-035C. In 2006: Merged with FEL02A00, which was deleted.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.25 SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_IFC01A00 **Indian Field Creek** YORK CO

Southeast of Pennimon Spit, within Naval Weapons Station. DSS condemnation no. 051-130, 11/12/1998.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment	0.12 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_KNG01A02 **King Creek - Upper** YORK CO

South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. Headwaters area of creek downstream to RM 0.50. Portion of VDH-DSS condemnation 051-035C, 10/7/2004

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.19 SQUARE MILES	01779	**2004**	**2010**	VAT-F26E-08 (and 2004 fact sheet VAT-F27E-05) Sufficient exceedances of Virginia's water quality standards for Dissolved Oxygen were recorded at DEQ's ambient water quality monitoring station on King Cr. to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goals for the 2002 305(b) report. The cause of the standard exceedances was considered unknown. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			
Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2004**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.
		Sources:	Agriculture Atmospheric Deposition - Nitrogen Industrial Point Source Discharge Internal Nutrient Recycling Loss of Riparian Habitat Municipal Point Source Discharges Sources Outside State Jurisdiction or Borders Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)			

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_KNG02A02 **King Creek - Lower** YORK CO

South shore of York River. East of Pennimon Spit, within Naval Weapons Station facility. From RM 0.5 to mouth of creek at confluence with York River (RM 0.0). Portion of VDH-DSS condemnation 051-035C, 10/7/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.14 SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_PRN01A00 **Perrin River - Upper** GLOUCESTER CO

North shore York River near Cuba Island. From DSS marker "D-Buckle" upstream to headwaters. DSS condemnation # 046-081A, 10/2/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment	0.12 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_PRN02A00 **Perrin River - Lower** GLOUCESTER CO

North shore York River near Cuba Island. As described in DSS seasonal condemnation # 046-081 M1, 10/2/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.06 SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_SRH01A00 **Sarah Creek - Upper** GLOUCESTER CO

North shore York River near Gloucester Point. Segment extends from headwaters of branches of Sarah Creek downstream to narrows at Gloucester Banks. DSS condemnation # 046-052, 10/2/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.56 SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_SRH02A00 **Sarah Creek - Lower** GLOUCESTER CO

North shore York River near Gloucester Point. Segment extends from mouth (juncture with York River) upstream to narrows at Gloucester Banks. DSS seasonal condemnation # 046-052 M1, 10/2/2004.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.17	SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01779	**2006**	**2010**	VAT-F26E-08

During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_TMB01A00 **Timberneck Creek** GLOUCESTER CO

North shore York River, northeast of Catlett Islands. DSS condemnation 047-003, 11/4/2003.

Area reduced and size adjusted in 2006 cycle

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.24	SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_WOR01A00 **Wormley Creek (Upper)** YORK CO

South shore York River near Amoco facility southeast of Gloucester Point. Upstream portion of DSS (ADMINISTRATIVE) condemnation #052-006A.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.17 SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_WOR02A02 **Wormley Creek (Lower)** YORK CO

South shore York River near Amoco facility southeast of Gloucester Point. One half mile around CORE fish tissue station @ 8-WOR000.35. Downstream portion of DSS condemnation no. 052-006A, 3/7/2002

YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.16 SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources: Agriculture
Atmospheric Deposition - Nitrogen
Industrial Point Source Discharge
Internal Nutrient Recycling
Loss of Riparian Habitat
Municipal Point Source Discharges
Sources Outside State Jurisdiction or Borders
Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_YRK01A00 **York River (Lower Middle)** GLOUCESTER CO, YORK CO

The polyhaline boundary downstream to line from Roosevelt Pond N to Mumfort Islands at RM 7.49, excluding otherwise segmented DSS shellfish condemnation areas.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	8.30	SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01779	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_YRK01B00 **York R (DSS Condemnation - Cheatham Annex)** YORK CO

Segment adjacent to Cheatham Annex, VDH-DSS condemnation 051-035B, 10/7/2004 - administratively condemned due to National Security.

Size adjusted in 2006.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment	0.26 SQUARE MILES	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**		01779	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_YRK01C00 **York R (DSS Condemnation - Naval Weapons Sta.)** YORK CO

Segment adjacent to Yorktown Naval Weapons Sta., VDH-DSS condemnation 051-040, 9/18/2001 - administratively closed due to National Security.

Size adjusted in 2006 cycle

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.23	SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01779	**2006**	**2010**	VAT-F26E-08

The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_YRK01D06 **York River** GLOUCESTER CO / YORK CO — Yorktown Beach / YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.02 SQUARE MILES	01779	**2004**	**2010**	VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Use	Impairment	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Open-Water Aquatic Life	**Oxygen, Dissolved**	01779	**2004**	**2010**	VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_YRK01E06 **York River** GLOUCESTER CO / YORK CO — Gloucester Point Beach — YRKPH

VA Overall AU Category: **5A**

Use	Impairment		TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.02 SQUARE MILES	01779	**2004**	**2010**	VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Use	Impairment	TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Open-Water Aquatic Life	**Oxygen, Dissolved**	01779	**2004**	**2010**	VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_YRK02A00 **York River - Lower** GLOUCESTER CO, YORK CO

Segment starts at line across river from Roosevelt Pond to Mumfort Islands (RM 7.49), downstream to mouth (RM 0.0) near Thoroughfare Creek. No DSS shellfish condemnation.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	11.56	SQUARE MILES	01779	**2004**	**2010**	VAT-F26E-08 (and 2004 fact sheet VAT-F27E-03 also) The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. In addition, there were sufficient exceedances of the standard for Dissolved Oxygen at bottom water (deeper than 10 meters) observations at monitoring station on the York River (8-YRK011.14 & 8-YRK001.64) to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the standard violation was attributed to naturally occurring conditions in bottom waters of deep estuarine trenches. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed both the Open Water Use's summer dissolved oxygen criteria and the Shallow Water Use's submerged aquatic vegetation acreage requirements. There was insufficient data to assess the Deep Water Use.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01779	**2004**	**2010**	VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_YRK02B00 — **York R (Lower - administrative closures DSS 6B&C)** — YORK CO — Described in VDH-DSS (administrative) shellfish condemnation 052-006 B&C, 3/7/2002 adjacent Wormley Cr., HRSD STP & power plant and refinery.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.51	SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08 (and 2004 fact sheet VAT-F27E-03 also) The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. In addition, there were sufficient exceedances of the standard for Dissolved Oxygen at bottom water (deeper than 10 meters) observations at monitoring station on the York River (8-YRK011.14 & 8-YRK001.64) to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the standard violation was attributed to naturally occurring conditions in bottom waters of deep estuarine trenches. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed both the Open Water Use's summer dissolved oxygen criteria and the Shallow Water Use's submerged aquatic vegetation acreage requirements. There was insufficient data to assess the Deep Water Use.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01779	**2006**	**2010**	VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_YRK02C00 **York River - AMOCO** YORK CO

Segment within YRK02A00, DSS (ADMINISTRATIVE) shellfish condemnation #052-006A, 3/7/2002 (portion in York R), adjacent Wormley Cr. & AMOCO.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	2.75	SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08 (and 2004 fact sheet VAT-F27E-03 also) The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. In addition, there were sufficient exceedances of the standard for Dissolved Oxygen at bottom water (deeper than 10 meters) observations at monitoring station on the York River (8-YRK011.14 & 8-YRK001.64) to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the standard violation was attributed to naturally occurring conditions in bottom waters of deep estuarine trenches. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed both the Open Water Use's summer dissolved oxygen criteria and the Shallow Water Use's submerged aquatic vegetation acreage requirements. There was insufficient data to assess the Deep Water Use.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01779	**2006**	**2010**	VAT-F26E-08 The mainstem York River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

*Appendix A - List of Impaired (Category 5) Waters in 2006**

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description

York River Basin

TMDL Watershed Name: **York River Polyhaline Embayments**

TMDL Group ID: **01779**

VAT-F27E_ZZZ01A00 **Unsegmented estuaries in F27E** GLOUCESTER CO, YORK CO

Non segmented estuarine areas of F27E - Lower York River. No DSS condemnations.

YRKPH

VA Overall AU Category: **5A**

Use	Impairment			TMDL Group ID	First Listed on 303(d)	TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	**Oxygen, Dissolved**	0.46	SQUARE MILES	01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Open-Water Aquatic Life	**Oxygen, Dissolved**			01779	**2006**	**2010**	VAT-F26E-08 During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted. The York Polyhaline segment failed the Open Water Use's summer dissolved oxygen criteria.

Sources:
- Agriculture
- Atmospheric Deposition - Nitrogen
- Industrial Point Source Discharge
- Internal Nutrient Recycling
- Loss of Riparian Habitat
- Municipal Point Source Discharges
- Sources Outside State Jurisdiction or Borders
- Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)

Note: * Includes Category 4A and 4C Impairments within each Assessment Unit. Assessment Units may extend across jurisdictional boundaries.